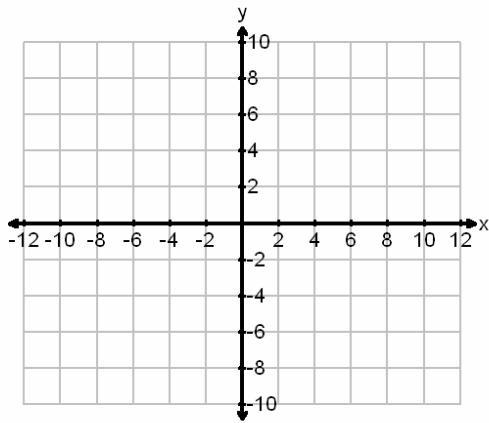


Grade 11 sketching functions review

Please show all work on this sheet.

Sketch the following functions and state the domain and range.

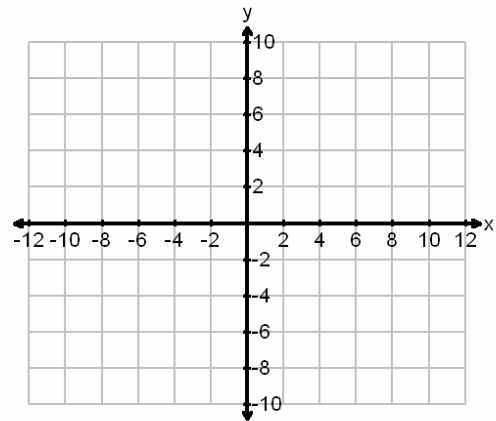
1. $y = |x|$



Domain : _____.

Range: _____.

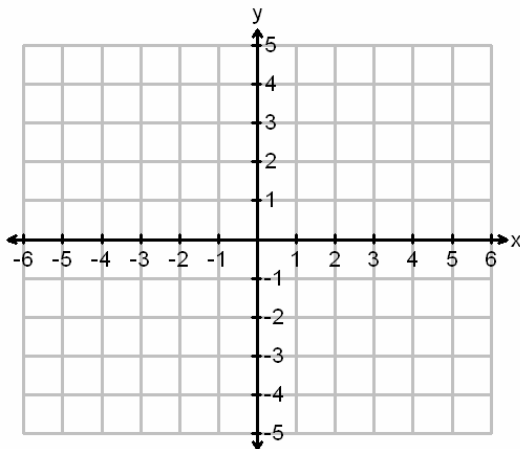
2. $y = |x + 10|$



Domain : _____.

Range: _____.

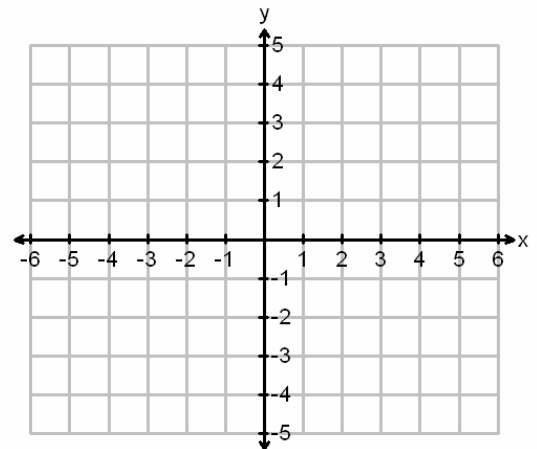
3. $y = |2x - 1|$



Domain : _____.

Range: _____.

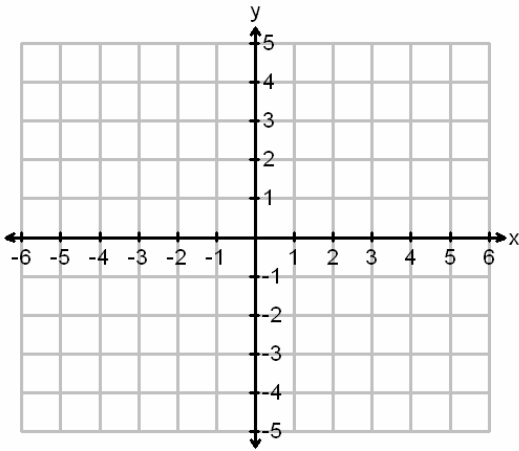
4. $y = -|2x + 1|$



Domain : _____.

Range: _____.

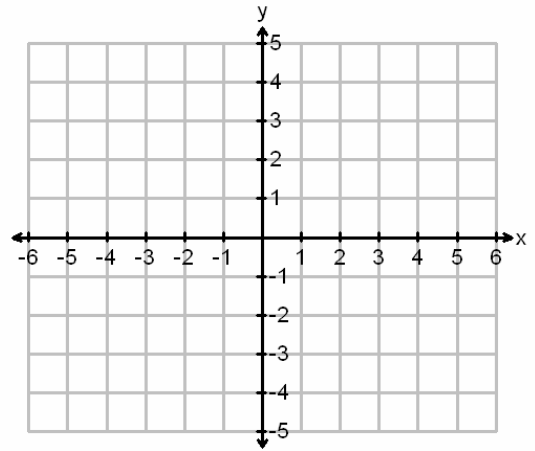
5. $y = |1 - 2x|$



Domain : _____.

Range: _____.

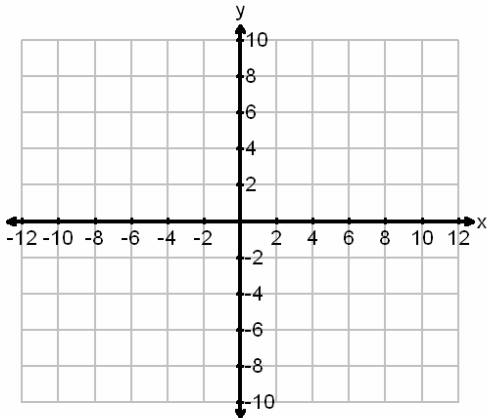
6. $y = 3|1 - 2x|$



Domain : _____.

Range: _____.

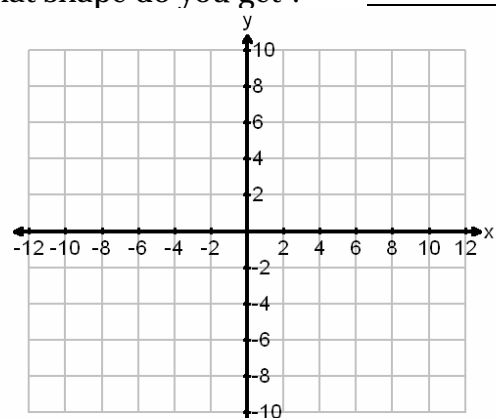
7. $y = \sqrt{100 - x^2}$
 rearrange this so x^2 and y are on 1 side,
 what shape do you get? _____.



Domain : _____.

Range: _____.

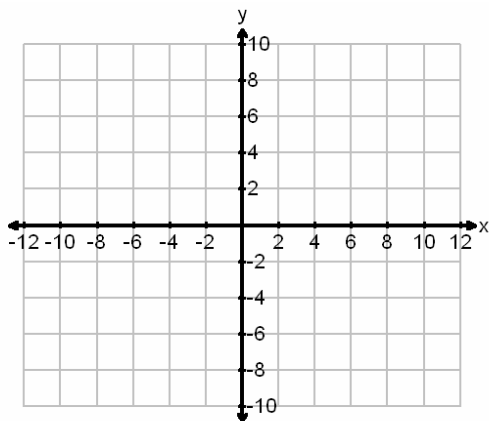
8. $y = \sqrt{16 - x^2}$
 rearrange this so x^2 and y are on 1 side,
 what shape do you get? _____.



Domain : _____.

Range: _____.

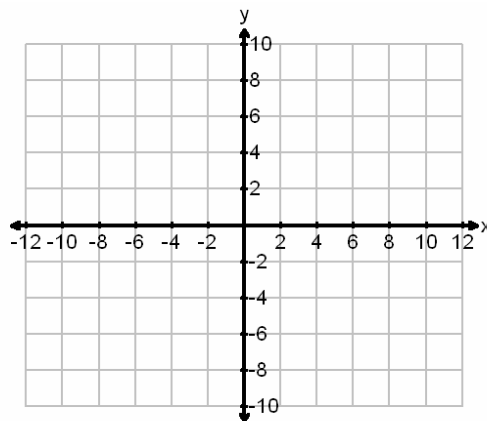
9. $y = \sqrt{100 - 4x^2}$
 rearrange this so x^2 and y are on 1 side,
 what shape do you get ? _____.



Domain : _____.

Range: _____.

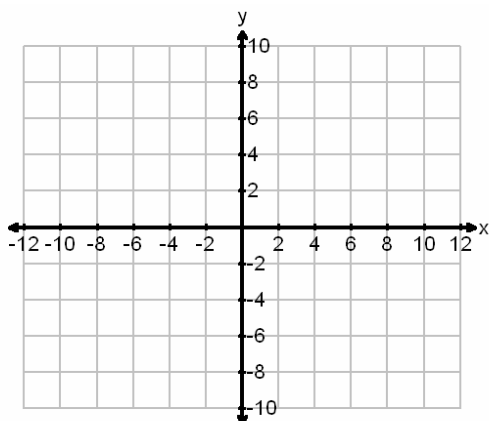
10. $y = \sqrt{16 - 4x^2}$
 rearrange this so x^2 and y are on 1 side,
 what shape do you get ? _____.



Domain : _____.

Range: _____.

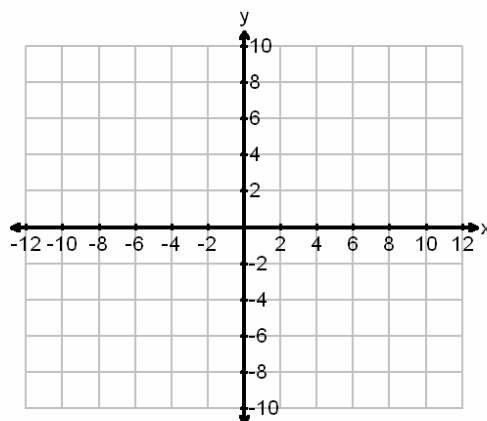
11. $y = \sqrt{4x^2 - 100}$
 rearrange this so x^2 and y are on 1 side,
 what shape do you get ? _____.



Domain : _____.

Range: _____.

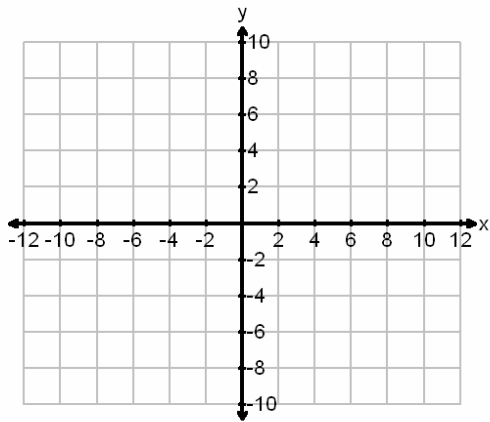
12. $y = \sqrt{4x^2 - 16}$
 rearrange this so x^2 and y are on 1 side,
 what shape do you get ? _____.



Domain : _____.

Range: _____.

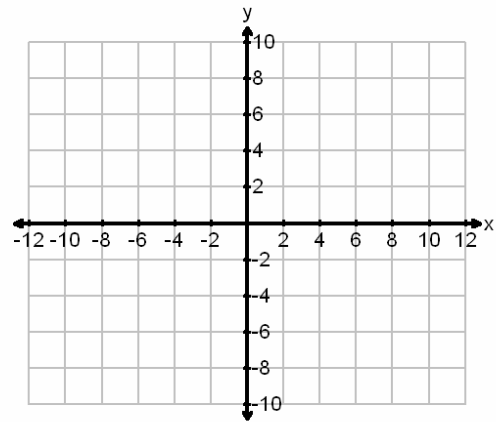
13. $y = \sqrt{10-x}$



Domain : _____.

Range: _____.

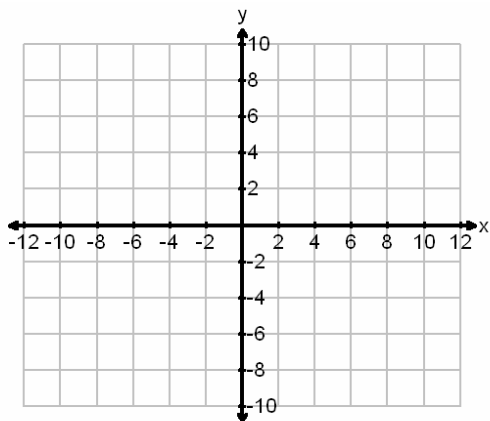
14. $y = \sqrt{4-x}$



Domain : _____.

Range: _____.

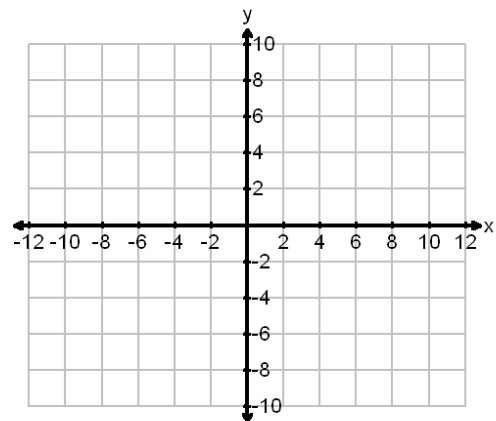
15. $y = \sqrt{x-10}$



Domain : _____.

Range: _____.

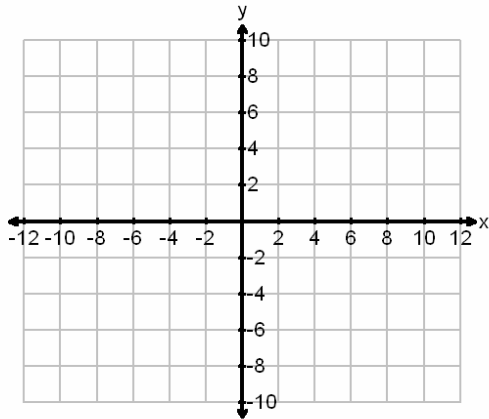
16. $y = \sqrt{x-4}$



Domain : _____.

Range: _____.

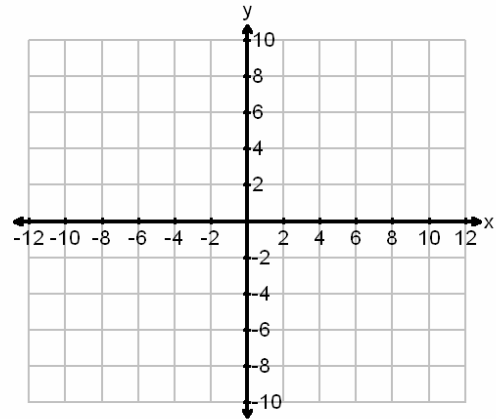
17. $y = -\sqrt{x-4}$



Domain : _____.

Range: _____.

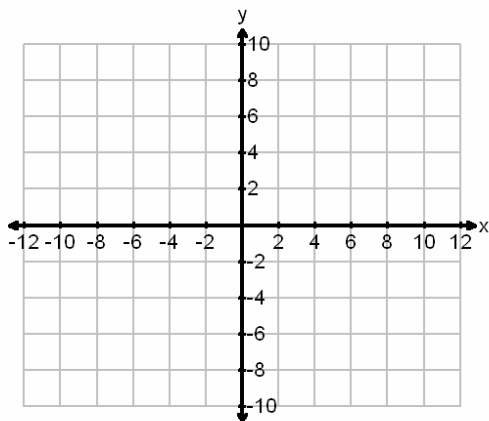
18. $y = -\sqrt{4-x}$



Domain : _____.

Range: _____.

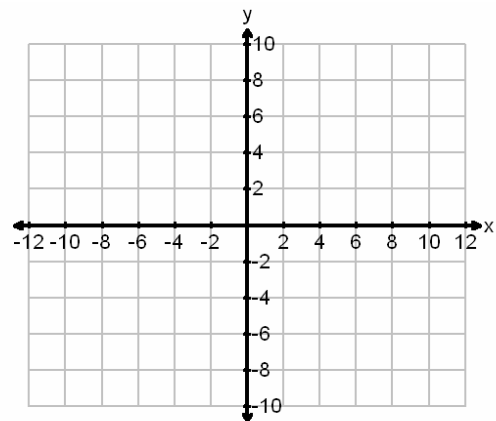
19. $y = \sqrt{2x-6}$



Domain : _____.

Range: _____.

20. $y = \sqrt{6-2x}$

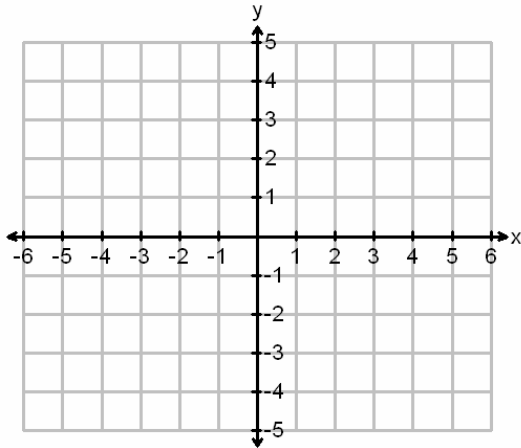


Domain : _____.

Range: _____.

21. $y = (x-2)(x+3)$

Shape = _____.

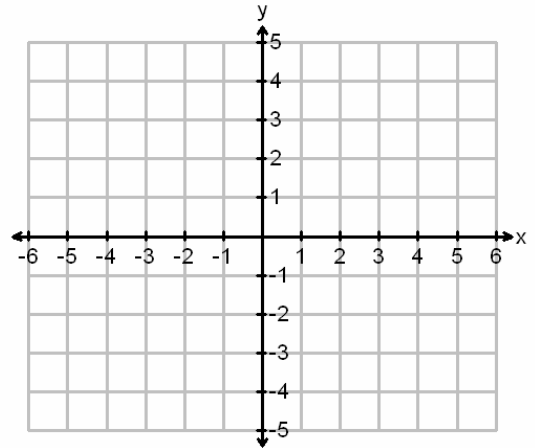


Domain : _____.

Range: _____.

22. $y = -(x-2)(x+3)$

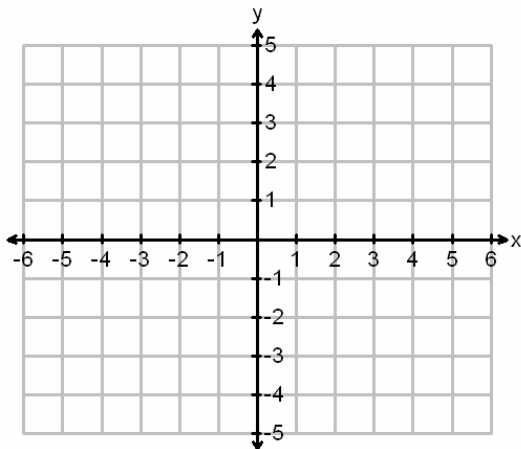
Shape = _____.



Domain : _____.

Range: _____.

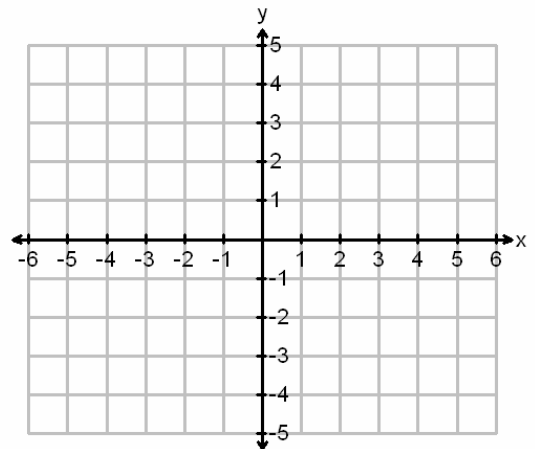
23. $y = (2x-1)(3x+1)$



Domain : _____.

Range: _____.

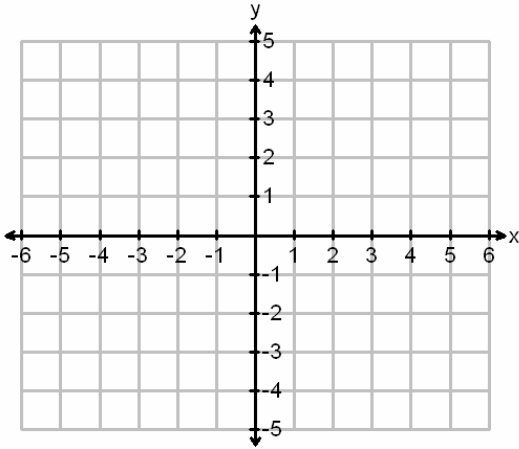
24. $y = (-2x+1)(3x-1)$



Domain : _____.

Range: _____.

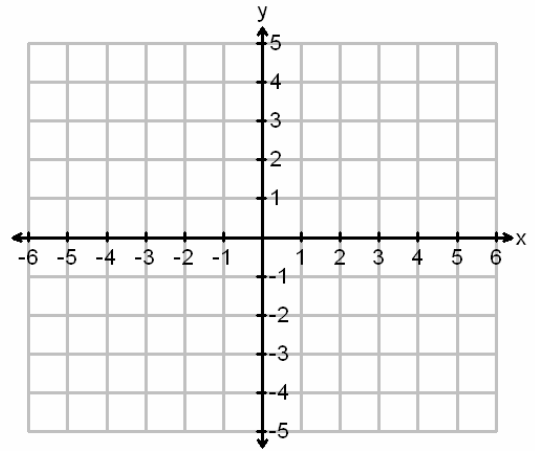
25. $y = x^2 + 2x - 15$



Domain : _____.

Range: _____.

26. $y = x^2 - 2x - 15$

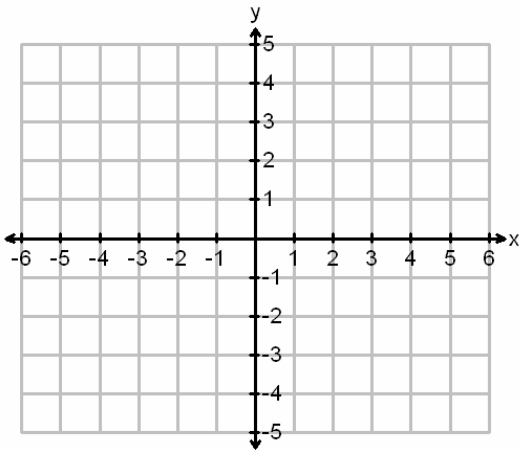


Domain : _____.

Range: _____.

27. $y = x^2 - 2x + 15$

Is this factorable ?
What do we do ?

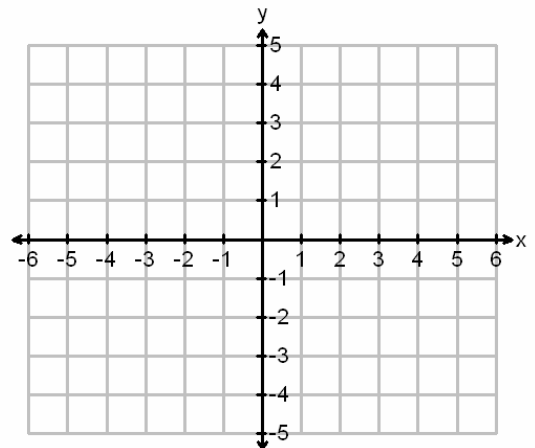


Domain : _____.

Range: _____.

28. $y = 2x^2 - 3x + 15$

Is this factorable ?
What do we do ?



Domain : _____.

Range: _____.