

Summer Assignment

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Date _____ Period _____

Evaluate each expression.

1) $3(4 + 6)$

2) $(2 - 1) \times 2$

3) $(5 + 2 - 5) \times 6$

4) $(3 + 3 + 4) \times 3$

Simplify each expression.

5) $\frac{3}{8}n + \frac{11}{8}n$

6) $\frac{11}{6}x - \frac{13}{8}x$

7) $-\frac{13}{7}\left(-\frac{8}{3}b + 1\right)$

8) $v + \frac{32}{7}\left(v - \frac{39}{10}\right)$

Solve each equation.

9) $5r + 3 + r = -15$

10) $6 = 3x - x$

11) $-90 = -3(4n + 8) + n$

12) $-204 = -6(6 - 7b)$

13) $-7(-4 + v) - 3(7v + 7) = 63$

14) $-2(-3 - 4x) + 3(2x + 8) = 44$

15) $-15 + n = 1 - 7n$

16) $m - 8 = -4m + 12$

Factor each completely.

17) $a^2 - a - 12$

18) $p^2 - 2p - 8$

19) $k^2 - 2k + 1$

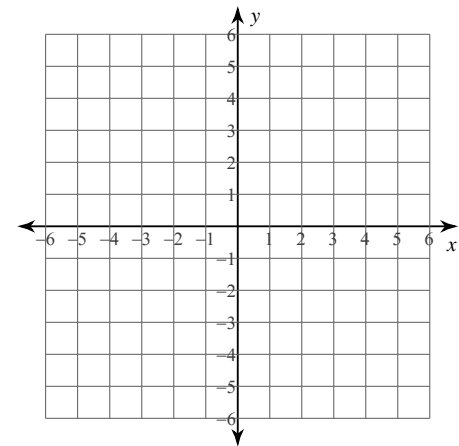
20) $n^2 + 7n - 30$

21) $x^2 + 8x + 7$

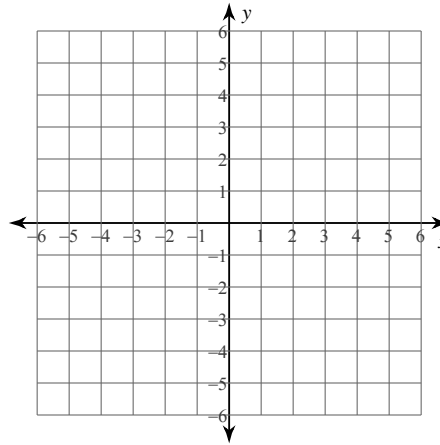
22) $x^2 - 7x$

Sketch the graph of each line.

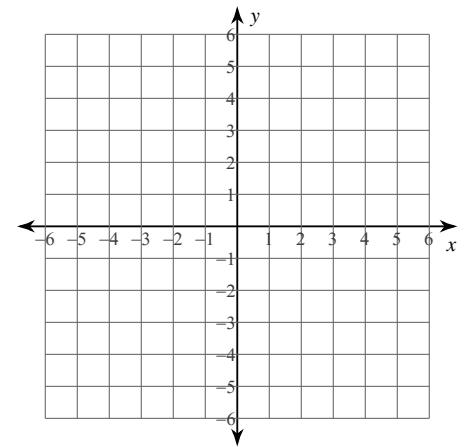
23) $y = 3x - 1$



24) $y = \frac{2}{3}x + 2$



25) $y = -\frac{1}{2}x - 3$



26) $y = \frac{1}{2}x + 1$

