

1. Evaluate $2y - 3x$ for $x = -5$ and $y = 6$.

- a) -28 b) 27 c) -3 d) -46

2. Simplify: $\left| -\frac{1}{2} - \frac{1}{3} \right|$.

- a) $-\frac{5}{6}$ b) $-\frac{1}{6}$ c) $\frac{1}{6}$ d) $\frac{5}{6}$

4. Simplify: $2x - [5 - (x + 4)]$.
- a) $3x - 9$ b) $x - 9$ c) $3x - 1$ d) -1
5. Divide: $\frac{3}{10} \div \left(-\frac{2}{5}\right)$.
- a) $-\frac{25}{3}$ b) $-\frac{4}{3}$ c) $-\frac{3}{4}$ d) $-\frac{3}{25}$
6. Multiply: $-15(-2)(-8)$.
- a) -240 b) -150 c) -136 d) -46

7. Collect like terms: $5a + 2 - 9a + 6$.

- a) $-4a + 12$
- b) $14a - 4$
- c) $-4a - 4$
- d) $-4a + 8$

8. Simplify: $4[2(x - 9) - (x + 3)]$.

- a) $4x - 72$
- b) $4x - 84$
- c) $-4x + 84$
- d) $x - 21$

9. Simplify: $(-2x^2y^{-1})^5$.

- a) $-32x^{10}y^{-5}$
- b) $-32x^7y^4$
- c) $-10x^2y^{-1}$
- d) $-2x^{10}y^{-1}$

QI: Multiply

$$\begin{aligned}(x^2 - 3x + 2)(2x - 1) &= 2x^3 - 6x^2 + 4x - x^2 + 3x - 2 \\ &= 2x^3 - 7x^2 + 7x - 2\end{aligned}$$

Q2: Divide

$$\begin{aligned}\frac{2x-4}{x+1} \div \frac{x-2}{(x+1)^2} &= \frac{2x-4}{x+1} \times \frac{(x+1)^2}{x-2} \\&= \frac{2(x-2)(x+1)^2}{(x+1)(x-2)} \\&= 2(x+1)\end{aligned}$$

Q3:Solve

$$(x - 4)(x + 3) = 0$$

$$x = 4$$

or

$$x = -3$$

Q4:Solve

$$x - \frac{5}{3} \geq 3x + \frac{1}{2}$$

$$x - 3x \geq \frac{1}{2} + \frac{5}{3}$$

$$-2x \geq \frac{3}{6} + \frac{10}{6}$$

$$-2x \geq \frac{13}{6}$$

$$x \leq \frac{13}{-12}$$

$$x \leq -\frac{13}{12}$$

Q5: Graph the line

$$y - 2x + 3 = 0$$