**Evaluate the expression for the given value of the variable.**

1. $x - 7; x = 3$

1. $x - 7 : x = 3$

$(x) + (-7)$

$(3) + (-7)$

$-4$

$2x$

↑

Coe

$-1x$

$(+)(+) = (+)$

$(-)(-) = (+)$

$(+)(-) = (-)$

$(-)(+) = (-)$

2. $|2x + 5|; x = -4$

$2. \ |2x+5| \ : \ x=-4$

$|2(-4)+5|$

$|(-8)+5|$

$|-3|$

$3$

3. $-x + 9; x = 5.5$

3. $-x + 9 \quad : \quad x = 5.5$

$-(5.5) + 9$

$-5.5 + 9$

$3.5$

$$\begin{array}{r} 8\ 10 \\ 9.\not{0} \\ -\ 5.5 \\ \hline 3.5 \end{array}$$

4. $\sqrt{x} - 5; x = 16$

$4.\ \sqrt[2]{x} - 5 \ ; \ x = 16$

$\sqrt{(16)} - 5$

$4 - 5$

$-1$

**5.** $|x| + 5.7; x = -3.4$

5. $|x| + 5.7 \quad : \quad x = -3.4$

$|(-3.4)| + 5.7$

$3.4 + 5.7$

$9.1$

6. $\sqrt{-27 \div x}; x = -\frac{3}{4}$

$6.\ \sqrt{-27 \div x} \quad : x = -\frac{3}{4}$

$\sqrt{-27 \div \left(-\frac{3}{4}\right)}$

$\sqrt{-\frac{27}{1} \times \left(-\frac{4}{3}\right)}$

$\sqrt{\frac{108}{3}}$

$\sqrt{\frac{36}{1}}$

$\frac{\sqrt{36}}{\sqrt{1}}$

$\frac{6}{1}$

$6$

**Evaluate the given expression for $x = \frac{2}{3}$ and $y = -3$.**

**7.** $3x + 2y$

7. $3x + 2y$

$3\left(\frac{2}{3}\right) + 2(-3)$

$2 - 6$

$-4$

$2 + (-6)$

**Evaluate the given expression for $x = \frac{2}{3}$ and $y = -3$.**

**8.** $6x - 4y$

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Evaluate the given expression for $x = \frac{2}{3}$ and $y = -3$.

9. $\sqrt{-3y} - \frac{3}{4}x$

**Evaluate the given expression for $x = \frac{2}{3}$ and $y = -3$.**

**10.** $3x + |5y|$

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**Evaluate the given expression for $x = \frac{2}{3}$ and $y = -3$.**

**11.** $\frac{x + 5y}{2x - 2y}$

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**Evaluate the given expression for $x = \frac{2}{3}$ and $y = -3$.**

**12.** $\frac{4x - 6y}{2y} - \frac{5x}{10y}$

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**Evaluate the algebraic expression.**

**13.** $3(x^3 - y^2 + 3z); x = 4, y = -3, z = -12$

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**Evaluate the algebraic expression.**

**14.** $\sqrt{3a^2 + c} - (b + 3a)$; $a = 3, b = 9, c = -2$

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