Spiral #6

NAME:

7th Grade

Solve the equations.

1) $3x + 2 = 38$

2) $5x + 6 = 61$

3) $2 + 4x = 34$

4) $-3 + 6x = 39$

5) $54 = 5x + 9$

6) $58 = 7 + 3x$

Solve the equations.

1) $\frac{x}{4} + 6 = 13$

2) $\frac{x}{9} - 2 = 7$

3) $4 + \frac{x}{3} = 6$

4) $-7 + \frac{x}{2} = 13$

5) $1 = \frac{x}{6} + 4$

6) $-2 = \frac{x}{5} - 12$

7) $0 = -6 + \frac{x}{7}$

8) $4 = 2 + \frac{x}{8}$

olve the equations.

1) $\frac{2}{5}x + 7 = 33$

2) $\frac{4}{7}x - 3 = 57$

3) $9 + \frac{6}{5}x = 39$

4) $-1 + \frac{3}{4}x = 23$

5) $\frac{5}{2}x + 10 = 105$

6) $\frac{1}{12}x - 3 = 2$

Simplify.

1) $\dfrac{(c^3)^{-1}}{c^5 \cdot c^3 \cdot c^{-2}}$

2) $\dfrac{x^3 \cdot x^5}{x^9 \cdot x^{-3}}$

3) $(x^6)^2 \cdot x^5$

4) $\dfrac{x^7}{x^3 \cdot x^{-9}}$

5) $\dfrac{(y^3)^2 \cdot y^2}{y}$

6) $\dfrac{y}{y^{19}}$

7) $a^{-6} \cdot (a^5)^3$

8) $b^{15} \cdot b^{-2} \cdot (b^3)^0$