

Solving for a variable

Date _____ Period _____

Solve each equation for y.

1) $-3y = 9 - 18x$

2) $15 = 5y - 4x$

3) $-x - 2y = 4$

4) $2x + 5y = -5$

5) $0 = -2y - 8 + x$

6) $-1 = \frac{1}{3}x - \frac{1}{3}y$ (hint: clear fractions first
by multiplying every term by 3)

7) $0 = -1 - \frac{1}{5}y$

8) $-y = -2x + 1$

Solve each equation for x.

9) $-5 - y = 4x$

10) $-3x = -4y + 16$

11) $7x = -y$

12) $0 = 12x - 24 - 4y$

13) $-12y = 10 - 4x$

14) $2x + 8y = -6$

15) $-y = 3x - 3$

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

Answers to Solving for a variable (ID: 1)

1) $y = 6x - 3$

2) $y = \frac{4}{5}x + 3$

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

4) $y = -\frac{2}{5}x - 1$

5) $y = \frac{1}{2}x - 4$

6) $y = x + 3$

7) $y = -5$

8) $y = 2x - 1$

9) $-\frac{5}{4} - \frac{1}{4}y = x$

10) $x = \frac{4}{3}y - \frac{16}{3}$

11) $x = -\frac{1}{7}y$

12) $2 + \frac{1}{3}y = x$

13) $3y + \frac{5}{2} = x$

14) $x = -3 - 4y$

15) $-\frac{1}{3}y + 1 = x$

16) $x = -2 - 2y$