

Mixed Review 4

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.

1)
$$\frac{(vu^{-4})^{-2}}{2u^2v^2 \cdot u^{-1}v^{-2}}$$

2)
$$\frac{(2x^3y^{-3})^2}{x^4y^4 \cdot 2x^3y^{-3}}$$

Simplify.

3) $-5\sqrt{98}$

4) $-3\sqrt{28}$

5) $\frac{\sqrt{63}}{6}$

6) $\frac{\sqrt{24}}{12}$

Solve each equation.

7) $|v - 4| + 3 = 14$

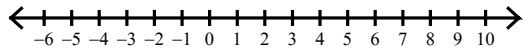
8) $-9|-n + 10| = -45$

9) $-8|7n + 4| = 80$

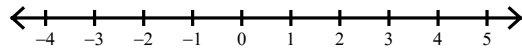
10) $-9|-6p - 10| = -72$

Solve each inequality and graph its solution.

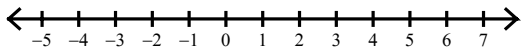
11) $|6 - 4p| - 9 \geq 5$



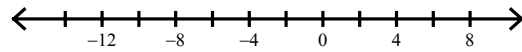
12) $6 + |2 - 4v| \leq 20$



13) $|-10x + 10| - 5 \geq 15$

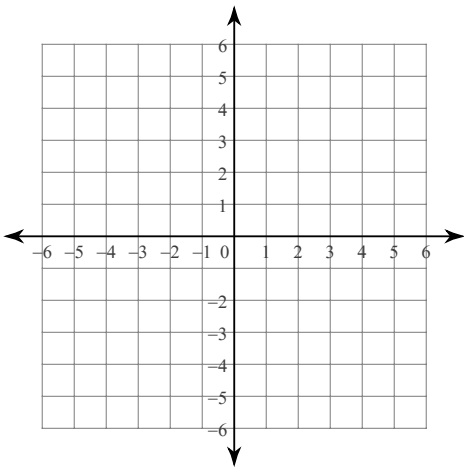


14) $-3|2a + 4| \leq -48$

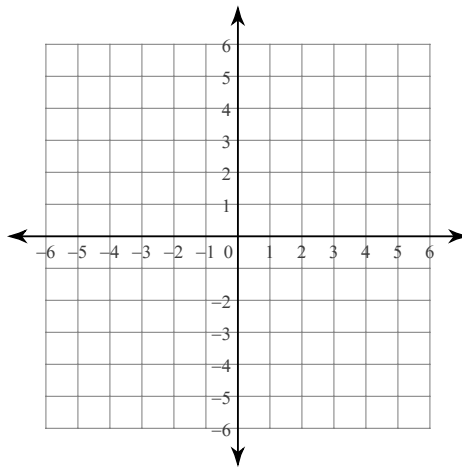


Graph each equation.

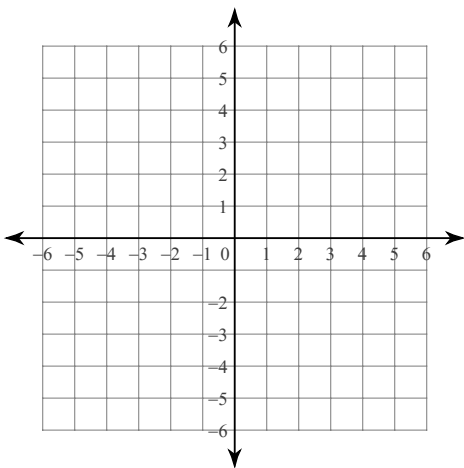
15) $y = -|x - 2| - 3$



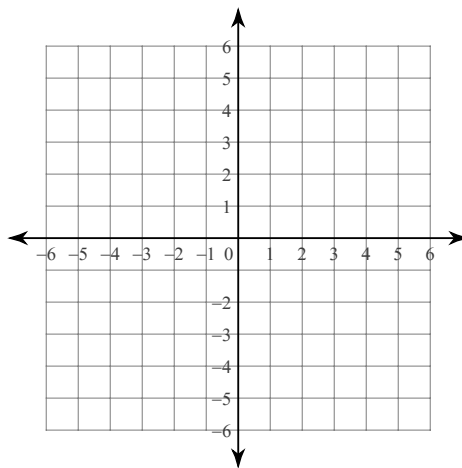
16) $y = -|x| + 4$



17) $y = |x - 3| + 1$



18) $y = |x - 2|$



Answers to Mixed Review 4 (ID: 1)

1) $\frac{u^7}{2v^2}$
 5) $\frac{\sqrt{7}}{2}$

2) $\frac{2}{y^7x}$
 6) $\frac{\sqrt{6}}{6}$

3) $-35\sqrt{2}$

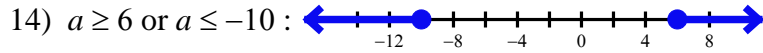
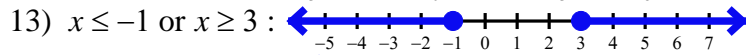
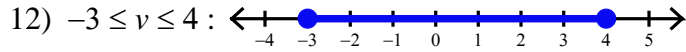
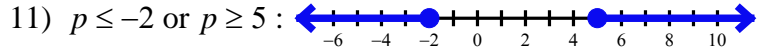
7) $\{15, -7\}$

4) $-6\sqrt{7}$

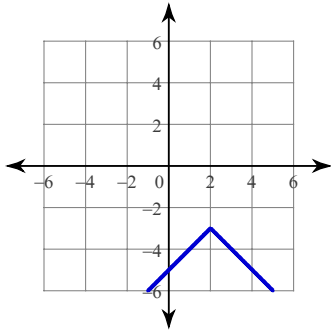
8) $\{5, 15\}$

9) No solution.

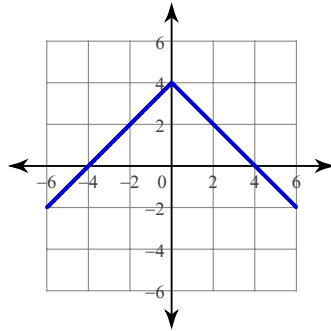
10) $\left\{-3, -\frac{1}{3}\right\}$



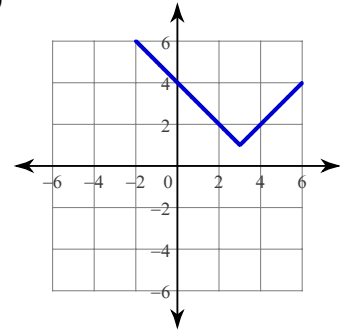
15)



16)



17)



18)

