

## 10-3 Quiz Review (Check you answers online)

Date \_\_\_\_\_ Period \_\_\_\_\_

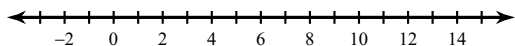
**Factor each completely.**

1)  $n^2 - 8n + 15$

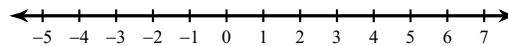
2)  $2r^2 + 26r + 72$

**Solve each inequality and graph its solution.**

3)  $|p - 7| > 5$



4)  $|-9x| - 10 \leq 8$

**Solve each equation.**

5)  $\left| \frac{v}{6} \right| = 1$

6)  $10|a - 7| = 120$

**Simplify.**

7)  $\sqrt{50p^3}$

8)  $2\sqrt{112b^4}$

9)  $-3\sqrt{8} + 2\sqrt{24} - \sqrt{2}$

10)  $3\sqrt{6} - 3\sqrt{8} + 3\sqrt{54}$

**Factor each completely.**

11)  $3x^2 - 4x - 32$

12)  $16r^2 - 9$

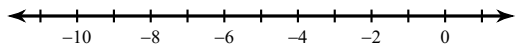
**Solve each equation.**

13)  $-3|5 + 3p| + 1 = -104$

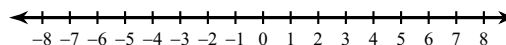
14)  $-1 - 3|7a - 4| = -97$

**Solve each inequality and graph its solution.**

15)  $4|9 + 9x| - 4 \leq 32$



16)  $4 - 3|-9n + 2| < -83$



**Simplify.**

17)  $-\sqrt[4]{128v^7}$

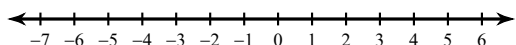
18)  $3\sqrt{320a^3b^3c^4}$

19)  $-3\sqrt{3} - \sqrt{54} - \sqrt{24} - 2\sqrt{54}$

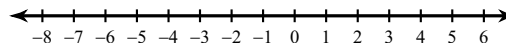
20)  $-2\sqrt{18} - 3\sqrt{8} - 2\sqrt{54} + 2\sqrt{2}$

**Solve each inequality and graph its solution.**

21)  $\frac{|7 + 4x|}{8} \leq -3$



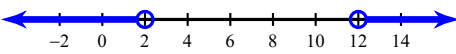
22)  $|-9 + p| - 3 \geq -22$

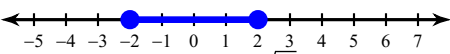


## Answers to 10-3 Quiz Review (Check you answers online) (ID: 1)

1)  $(n-3)(n-5)$

2)  $2(r+9)(r+4)$

3)  $p > 12$  or  $p < 2$  : 

4)  $-2 \leq x \leq 2$  : 

5)  $\{6, -6\}$

6)  $\{19, -5\}$

7)  $5p\sqrt{2p}$

8)  $8b^2\sqrt{7}$

9)  $-7\sqrt{2} + 4\sqrt{6}$

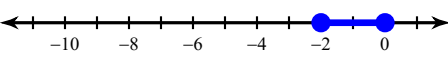
10)  $12\sqrt{6} - 6\sqrt{2}$

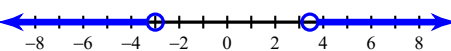
11)  $(3x+8)(x-4)$

12)  $(4r+3)(4r-3)$

13)  $\left\{10, -\frac{40}{3}\right\}$

14)  $\left\{\frac{36}{7}, -4\right\}$

15)  $-2 \leq x \leq 0$  : 

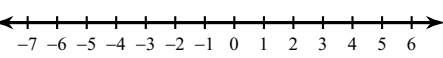
16)  $n < -3$  or  $n > \frac{31}{9}$  : 

17)  $-2v\sqrt[4]{8v^3}$

18)  $24c^2ab\sqrt{5ab}$

19)  $-3\sqrt{3} - 11\sqrt{6}$

20)  $-10\sqrt{2} - 6\sqrt{6}$

21) No solution. : 

22)  $\{ \text{All real numbers.} \}$  : 