

Review Unit 1 w/ radicals

Simplify

1.  $-3(x-2)$

2.  $-2(6 \cdot 2 - 5) + 3 \cdot 2 - 1$

3.  $|-2-1|$

4.  $3(x-2) - 2(2x+1)$

5.  $-12c + 5 - 4c - 7$

6.  $(-1)(-2)(-3)(-4)(-1)$

7.  $\sqrt{75}$

8.  $-2\sqrt{75}$

9.  $\sqrt{2160}$

10.  $\sqrt{500}$

11.  $\sqrt{80}$

12.  $-\sqrt{64}$

13.  $\sqrt{507}$

14.  $\sqrt{4225}$

15.  $-2\sqrt{27} - 3\sqrt{3}$

16.  $-2\sqrt{3} - 3\sqrt{2} + 3\sqrt{3} - 3\sqrt{2}$

STATE THE PROPERTY ILLUSTRATED BELOW.

17)  $83 + 6 = 6 + 83$  \_\_\_\_\_

18)  $15x + 15y = 15(x + y)$  \_\_\_\_\_

19)  $7 + (8 + 15) = (7 + 8) + 15$  \_\_\_\_\_

20)  $\frac{2}{3} \cdot \frac{3}{2} = 1$  \_\_\_\_\_

21)  $wr = rw$  \_\_\_\_\_

22)  $0 = 30 \cdot 0$  \_\_\_\_\_

23)  $6 \cdot (x \cdot y) = (6 \cdot x) \cdot y$  \_\_\_\_\_

24)  $(7x) \cdot (-1) = -7x$  \_\_\_\_\_

**Write each number in standard form.**

25.  $5.62 \times 10^{-1} =$  \_\_\_\_\_ 26.  $8.93 \times 10^{-4} =$  \_\_\_\_\_ 27.  $9 \times 10^{-3} =$  \_\_\_\_\_

28.  $3 \times 10^8 =$  \_\_\_\_\_ 29.  $2.325 \times 10^4 =$  \_\_\_\_\_ 30.  $8.26 \times 10^1 =$  \_\_\_\_\_

**Write each number in scientific notation.**

31.  $7,320 =$  \_\_\_\_\_ 32.  $.000345 =$  \_\_\_\_\_ 33.  $642.36 =$  \_\_\_\_\_

34.  $0.584 =$  \_\_\_\_\_ 35.  $2,147,100 =$  \_\_\_\_\_ 36.  $0.01025 =$  \_\_\_\_\_