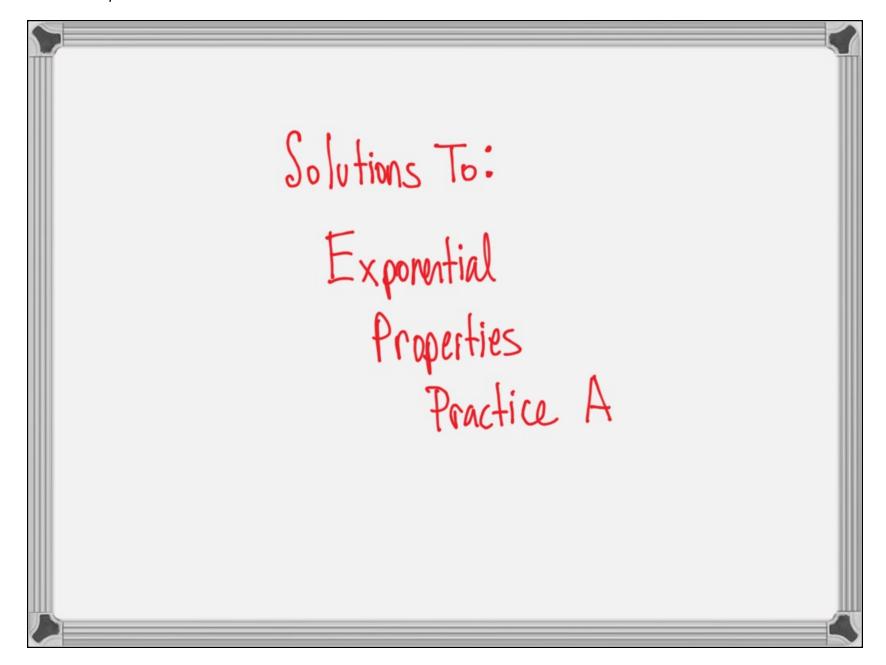
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Math II

Name ID: 1

Exponential Properties Practice A

Date Period

Simplify. Your answer should contain only POSITIVE EXPONENTS

1)
$$2n^{-3} \cdot 2n^{4}$$

$$2 \cdot 2 \cdot n^{-3+1} \rightarrow 4n^{2} \rightarrow \frac{4}{n^{2}}$$

2)
$$2xx^3$$
 $2x^{1+3} \rightarrow 2x^4$

3)
$$v^2v^3$$
 $v^{2+3} \rightarrow v^5$

4)
$$x^{-1} \cdot 2x$$
 $2x^{-(+)} \rightarrow 2x^{0} \rightarrow 2$

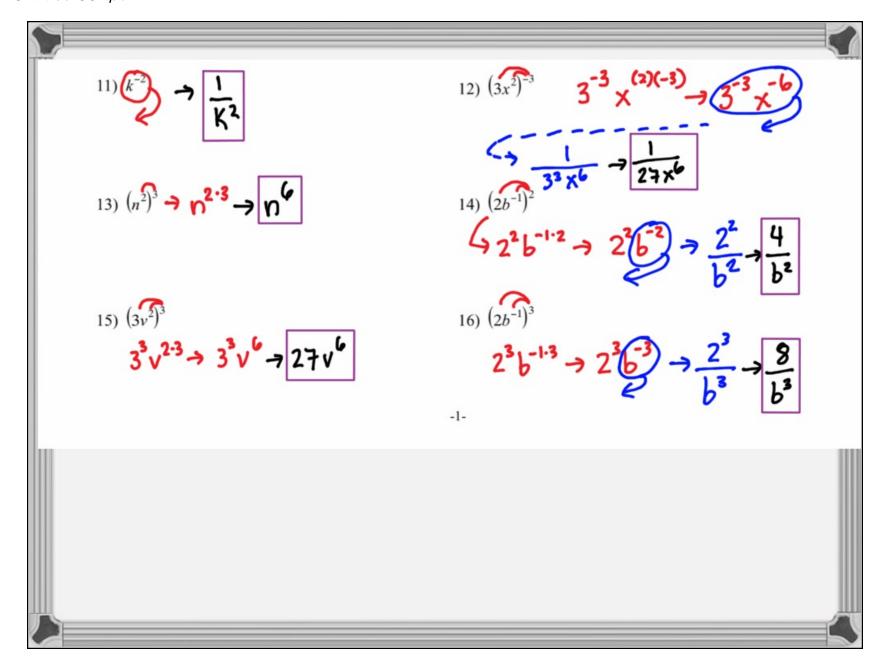
6)
$$2x^3 \cdot x^1 \rightarrow 2x^{3+1} \rightarrow 2x^4$$

7)
$$v^{-1} \cdot 2v^{3}$$
 2 $v^{-1+3} \rightarrow 2v^{2}$

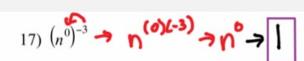
8)
$$3a^2 \cdot 3a^3$$
 $3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \rightarrow 9 \cdot 5$

9)
$$3a^3 \cdot 3a^0$$
 3·3 q^{3+0} qa^3

10)
$$3b^3 \cdot 2b^3$$
 3.2 $b^{3+3} \rightarrow 6b^6$



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18)
$$(b^{-1})^2 \rightarrow b^{-1\cdot 2} \rightarrow b^{-2} \rightarrow b^2$$

19)
$$(2x^2)^3 \rightarrow 2^3 \times^{2\cdot3} \rightarrow 2^3 \times^6 \rightarrow 8 \times^6$$

20)
$$(2x)^{-2} \rightarrow (2^{2}x^{-2}) \rightarrow (2^{2}x^{2}) \rightarrow (4x^{2})$$

21)
$$\frac{2n^3}{n^2}$$
 \rightarrow $2n$

22)
$$\frac{2x^3}{x^{-2}} \to 2x^{3-(-2)} \to 2x^{5}$$

23)
$$\frac{2n^0}{3n!} \rightarrow \frac{2}{3} \stackrel{\circ}{n}^{-1} \rightarrow \frac{2}{3} \stackrel{\circ}{n} \rightarrow \frac{2}{3n}$$

$$\frac{1}{3r^0} \qquad \frac{1}{3}r^{-1-0} \rightarrow \frac{1}{3}r^{-1-0} \rightarrow \frac{1}{3}r^{-1-0}$$

