

Name:

May 2, 2012

Algebra
Due: Thursday, May 3

What is the square root of:

$$\sqrt{81}$$

$$\sqrt{49}$$

$$\sqrt{3}$$

Hint: $\sqrt{20} = \sqrt{4 \cdot 5} = \sqrt{4} \cdot \sqrt{5} = 2\sqrt{5}$
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Fill in the following:

$$\sqrt{18} = \sqrt{\square \cdot 2} = \sqrt{\square} \cdot \sqrt{2} = \underline{\quad} \sqrt{2}$$

$$\sqrt{32} = \sqrt{\square \cdot 2} = \sqrt{\square} \cdot \sqrt{2} = \underline{\quad} \sqrt{2}$$

$$\sqrt{27} = \sqrt{\square \cdot \square} = \sqrt{\square} \cdot \sqrt{\square} = \underline{\quad} \sqrt{3}$$

Hint:

$\sqrt{a^2} = \sqrt{a \cdot a} = a$

$\sqrt{x^4} = \sqrt{x^2 \cdot x^2} = \sqrt{x^2} \cdot \sqrt{x^2} = \underline{\quad}$

$$x^6 = \sqrt{\square \cdot \square \cdot \square} = \sqrt{\square} \cdot \sqrt{\square} \cdot \sqrt{\square} = \underline{\quad}$$

$$\sqrt{9x^2} = \underline{\quad}$$

$$\sqrt{36y^8} = \underline{\quad}$$

$$\sqrt{50x^2} = \underline{\quad}$$

$$\sqrt{27x^3} = \underline{\quad}$$