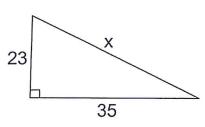
## Algebra 1 Thursday, May 21, 2015 Bellwork

- 1. Rationalize each denominator. Simplify as much as possible.
- a)  $\frac{15d^4}{\sqrt{6d}}$

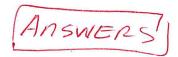
- b)  $\frac{14m^3}{\sqrt{20m^5}}$
- 2. Find the missing side to the nearest hundredth.
- 3. Find the exact value of the missing side.



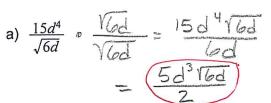
- 4. You need to build a ramp from the driveway up to your side door. The door is 3 feet above the driveway and the end of the ramp will be 9 feet from the house. Find the length of a board that is needed to build the ramp. Round to the nearest tenth.
- 5. Do the three lengths form a right triagle?
- a) 11,60,61

b) 7,22,23

## Thursday, May 21, 2015 Answers Algebra 1 Bellwork

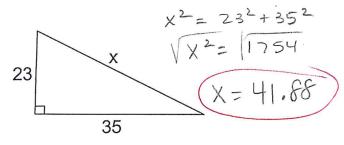


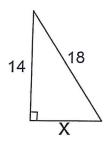
1. Rationalize each denominator. Simplify as much as possible.



b) 
$$\frac{14m^3}{\sqrt{20m^5}} \circ \frac{\sqrt{5m}}{\sqrt{5m}} = \frac{14m^3\sqrt{5m}}{\sqrt{100m^6}} = \frac{14m^3\sqrt{5m}}{10m^3} = \frac{14m^3\sqrt{5m}}{\sqrt{5m}}$$

- 2. Find the missing side to the nearest hundredth.
- 3. Find the exact value of the missing side





324 = 196 +XL

4. You need to build a ramp from the driveway up to your side door. The door is 3 feet above the driveway and the end of the ramp will be 9 feet from the house. Find the length of a board that is needed to build the ramp. Round to the nearest tenth.

- 5. Do the three lengths form a right triagle?
- 112+602 = 612 121+3600 = 3721
- 522 +529

