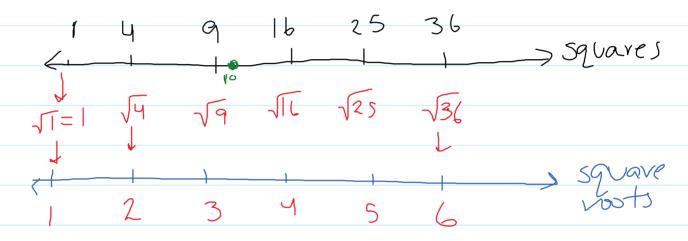
1.2 Square Roots of Non-Perfect Squares

9:20 AM February 12, 2015

Squares and Square Roots on # Lines

- Most #'s one not perfect squares - Use # lines to estimate the square roots of these #'s



10 is between the perfect squares
9 and 16
4 so \square is between \square 19 and \square 16

so $\sqrt{10} = 32$ which is between 3 and 4

3 is close to the perfect

square 4 4 10 is close to the perfect square 9 $\sqrt{\frac{3}{10}} - \sqrt{\frac{4}{9}} - \frac{2}{3}$ $\sqrt{\frac{3}{10}} = \frac{2}{3} + double check$ The Pythagorean Theorem - used in right triangles only c=h | a go" = perpendicular $a^2 + b^2 = c^2$

$$h^2 = \alpha^2 + b^2$$

