

Final Exam Review

Math 80

1) Swim clean is 30% muriatic acid. Pure swim is 80% muriatic acid. How many liters of each should be mixed together in order to get 100 liters of a solution that is 50% muriatic acid?

2) Solve: $9x^4 - 14x^2 + 5 = 0$

3) Find the equation of the line parallel to $y = \frac{2}{3}x - 5$ and passes through the point $(3, -5)$

4) A store is offering a 32% discount on all stereos. If the sale price of the stereo is \$155.00. What was the original price? (to the nearest cent)

5) A 15 foot ladder leans against a house. The base of the ladder is 6 feet from the house. How far up the side of the house does the ladder reach?

Answers: 1) 60L of swim clean, 40L of Pure Swim 2) $x = \pm 1, \pm \frac{\sqrt{5}}{3}$ 3) $y = 2/3x - 7$ 4) \$227.94 5) $\sqrt{189} \approx 13.7$