

YOUR NAME: _____

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Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Evaluate the following expressions:

(a) $\frac{-6^2 + 2 \cdot 7}{4 - 3 \cdot 2} =$

(b) $\left(\frac{1}{2} - \frac{1}{5}\right) \cdot \left|\frac{1}{3} - \frac{3}{4}\right| =$

2. Solve the linear equation

$$3 - \frac{2x - 3}{3} = \frac{1 - x}{4}.$$

3. The home of Mr. Goldfish has width 2 feet and length 5 feet. If it can hold 300 gallons of water, what is its height?
(1 cubic foot = $\frac{15}{2}$ gallons).

