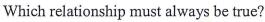
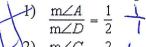
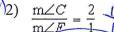
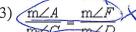
Corresponding Parts of Similar Triangles

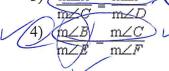
1. In the diagram below, $\triangle DEF$ is the image of $\triangle ABC$ after a clockwise rotation of 180° and a dilation where AB = 3, BC = 5.5, AC = 4.5, DE = 6, FD = 9, and EF = 11.



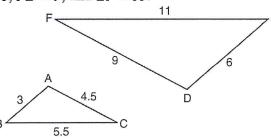




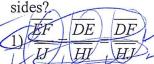






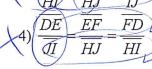


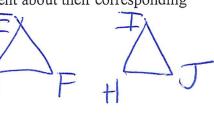
2. Given that $\Delta DEF \sim \Delta HIJ$, which is the correct statement about their corresponding



$$(2) \frac{\cancel{EF} \quad IJ}{\cancel{HI}} = \frac{\overrightarrow{DF}}{\overrightarrow{DE}} = \frac{\overrightarrow{DF}}{\overrightarrow{HJ}}$$







- 3. As shown in the diagram below, \overline{AB} and \overline{CD} intersect at E, and $\overline{AC} \parallel \overline{B}$.
- Given $\triangle AEC \sim \triangle BED$, which equation is true?

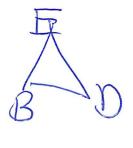
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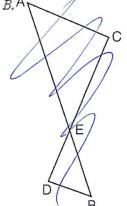
$$\frac{DE}{EA} = \frac{EA}{AC}$$

3)
$$EC$$
 BE AE ED

4)
$$ED = AC$$

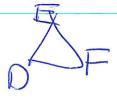






- 4. Scalene triangle ABC is similar to triangle DEF. Which statement is false?
- 1) AB:BC=DE:EF
- 2) AC:DF=BC:EF
- 3) $\angle ACB \cong \angle DFE$
 - $\angle ABC \cong \angle EDF$

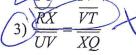




5. In the diagram below, $\Delta QRX \sim \Delta TUV$. Which of the following statements is *not* true?

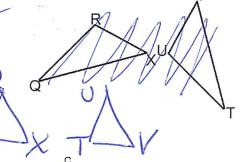


 $2) \begin{array}{|c|c|c|c|}\hline & X & \angle Q \\\hline & V & \angle T \\\hline \end{array}$



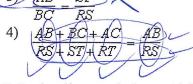
 $4) \overline{\frac{OX}{QR}} = \overline{\frac{TV}{TU}}$



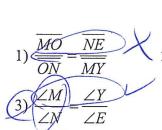


Which statement is not true?

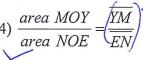
- ∠A ≅ ∠R
- 2) AB BC

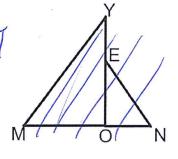


7. In the diagram below, $\triangle MOY$ is the image of $\triangle NOE$ after a dilation followed by a reflection. Which of the following statements is true:



2) perimeter MOY EN perimeter NOE YM





8. In the diagram below of right triangle AED, $\overline{BC} \parallel \overline{DE}$.

Which statement is always true?

- 1) AC DE BC AE
- 2) AB BC
 - AD DE 3) AC BC
- 4) DE DB BC = AB

