Use these Segments:

$\overline{AB}$	$\overline{CD}$	$\overline{EF}$	$\overline{MP}$
$A(-5,3)$	$C(5,6)$	$E(-7,-1)$	$M(2,3)$
$B(1,11)$	$D(8,10)$	$F(5,8)$	$P(8,-5)$

1. Which segments are parallel?

$\overline{AB} \parallel \overline{CD}$ Slope

2. Which segments are Perpendicular?

$\overline{EF} \perp \overline{MP}$ Slope

3. Which segments are congruent?

$\overline{AB} \cong \overline{MP}$ distance formula

	m	d
AB	$\frac{11-3}{1-(-5)} = \frac{8}{6} = \frac{4}{3}$	$\sqrt{6^2+8^2} = \sqrt{36+64} = \sqrt{100} = 10$
CD	$\frac{10-6}{8-5} = \frac{4}{3}$	$\sqrt{3^2+4^2} = 5$
EF	$\frac{8-(-1)}{5-(-7)} = \frac{9}{12} = \frac{3}{4}$	$\sqrt{12^2+9^2} = 15$
MP	$\frac{3-(-5)}{2-8} = \frac{8}{-6} = -\frac{4}{3}$	$\sqrt{8^2+(-6)^2} = 10$