

## Student Screenshots Slope, Midpoint and Distance

1.1 1.2 RAD AUTO REAL

Define  $slope(a,b,c,d) = \frac{d-b}{c-a}$  Done

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Define  $midptx(a,b,c,d) = \frac{a+c}{2}$  Done

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Define  $midpty(a,b,c,d) = \frac{b+d}{2}$  Done

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Define  $dist(a,b,c,d) = \sqrt{(a-c)^2 + (b-d)^2}$  Done

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1.1 1.2 RAD AUTO REAL

$(-5, 5)$   $(6, 2)$   
 $(0.5, 3.5)$   
 $(midptx, midpty)$

$dist(a,b,c,d)$  11.4018  
 $slope(a,b,c,d)$  -0.273

1.1 1.2 RAD AUTO REAL

$(-5, 2)$   $(6, 2)$   
 $(0.5, 2)$   
 $(midptx, midpty)$

$dist(a,b,c,d)$  11  
 $slope(a,b,c,d)$  0

1.1 1.2 RAD AUTO REAL

$(6, 2)$   $(6, 4)$   
 $(6, 3)$   
 $(midptx, midpty)$

$dist(a,b,c,d)$  6  
 $slope(a,b,c,d)$  undef

1.1 1.2 RAD AUTO REAL

$(2, -4)$   $(6, 2)$   
 $(4, -1)$   
 $(midptx, midpty)$

$dist(a,b,c,d)$  7.2111  
 $slope(a,b,c,d)$  1.5

1.1 1.2 RAD AUTO REAL

$(-1, 4)$   $(6, 2)$   
 $(2.5, 3)$   
 $(midptx, midpty)$

$dist(a,b,c,d)$  7.28011  
 $slope(a,b,c,d)$  -0.286

1.1 1.2 RAD AUTO REAL

$(-2, -2)$   $(6, 2)$   
 $(2, 0)$   
 $(midptx, midpty)$

$dist(a,b,c,d)$  8.94427  
 $slope(a,b,c,d)$  0.5