

Student Screenshots Slope, Midpoint and Distance

1.1 1.2 RAD AUTO REAL

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

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

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

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

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1.1 1.2 RAD AUTO REAL

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

$\text{dist}(a,b,c,d)$ 11.4018
 $\text{slope}(a,b,c,d)$ -0.273

1.1 1.2 RAD AUTO REAL

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

$\text{dist}(a,b,c,d)$ 11
 $\text{slope}(a,b,c,d)$ 0

1.1 1.2 RAD AUTO REAL

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

$\text{dist}(a,b,c,d)$ 6
 $\text{slope}(a,b,c,d)$ undef

1.1 1.2 RAD AUTO REAL

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

$\text{dist}(a,b,c,d)$ 7.2111
 $\text{slope}(a,b,c,d)$ 1.5

1.1 1.2 RAD AUTO REAL

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

$\text{dist}(a,b,c,d)$ 7.28011
 $\text{slope}(a,b,c,d)$ -0.286

1.1 1.2 RAD AUTO REAL

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

$\text{dist}(a,b,c,d)$ 8.94427
 $\text{slope}(a,b,c,d)$ 0.5