Midpoint and Distance
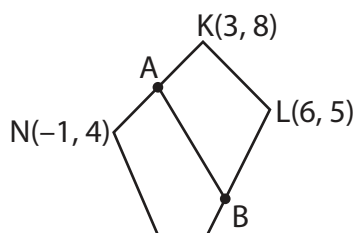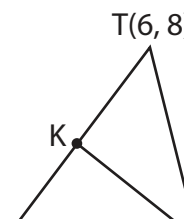
Solve each problem. Round your answer to the nearest tenth.

1) A and B are the midpoints of $\overline{KN}$ and $\overline{LM}$ respectively. Find the length of $\overline{AB}$.

K(3, 8)

A

N(−1, 4)

L(6, 5)
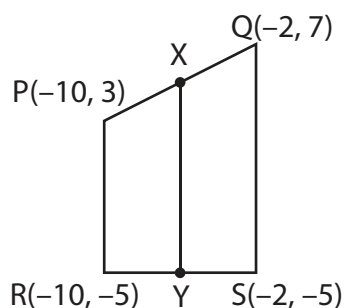
B

2) Find the length of the median $\overline{VK}$.

T(6, 8)

K

3)

Preview

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5) X and Y are the midpoints of $\overline{PQ}$ and $\overline{RS}$ respectively. Find the length of $\overline{XY}$.

Q(−2, 7)

X

P(−10, 3)

R(−10, −5) Y S(−2, −5)

6) Find the length of $\overline{FY}$, if F is the midpoint of $\overline{XZ}$.

Z(−4, 9)   Y(1, 9)

F

W(−5, 7)   X(0, 7)