

5. Find the equations of the three **medians**.

Median of $\overline{AB}$:

Passes through the points $\left(3, \frac{3}{2}\right)$ and $C = (-3, 2)$, thus the slope is $\frac{\frac{1}{2}}{-6} = -\frac{1}{12}$.

So the equation of the median is $y = -\frac{1}{12}x + \frac{7}{4}$.

Median of $\overline{BC}$:

Passes through the points $\left(-\frac{1}{2}, -\frac{1}{2}\right)$ and $A = (4, 6)$, thus the slope is $\frac{\frac{13}{2}}{\frac{9}{2}} = \frac{13}{9}$.

So the equation of the median is $y = \frac{13}{9}x + \frac{2}{9}$.

Median of $\overline{AC}$:

Passes through the points $\left(\frac{1}{2}, 4\right)$ and $B = (2, -3)$, thus the slope is $\frac{-7}{\frac{3}{2}} = -\frac{14}{3}$.

So the equation of the median is $y = -\frac{14}{3}x + \frac{19}{3}$.

6. Find the coordinates of the **centroid**, the intersection of the three medians. As before, pick two of the three lines and solve a system of equations to find the intersection.

Use any of the two lines above, for example $y = \frac{13}{9}x + \frac{2}{9}$ and $y = -\frac{14}{3}x + \frac{19}{3}$ and find the

intersection: $\frac{13}{9}x + \frac{2}{9} = -\frac{14}{3}x + \frac{19}{3}$ which solves to the point $\left(1, \frac{5}{3}\right)$.

7. Find the equations of the three **altitudes**.

Altitude of $\overline{AB}$:

Slope is perpendicular to $\overline{AB}$, thus slope $= -\frac{2}{9}$, and passes through point $C = (-3, 2)$.

So the equation is $y = -\frac{2}{9}x + \frac{4}{3}$.

Altitude of $\overline{BC}$:

Slope is perpendicular to $\overline{BC}$, thus slope $= 1$, and passes through point $A = (4, 6)$.

So the equation is $y = x + 2$.

Altitude of $\overline{AC}$:

Slope is perpendicular to $\overline{AC}$, thus slope $= \frac{7}{4}$, and passes through point $B = (2, -3)$.

So the equation is $y = \frac{7}{4}x + \frac{1}{2}$.

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