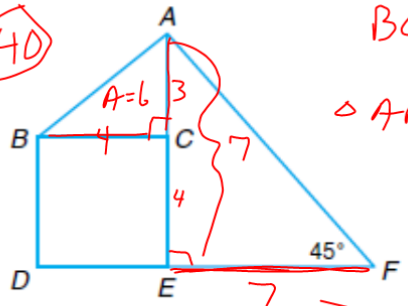
40



$BCED_{sq} = 16 = Area$

$\triangle ABC = 6 = Area$

$6 = \frac{1}{2}(4)h$

$6 = 2h$

C

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19. $4x - 5y = 12 \rightarrow 4x - 5y - 12 = 0$

$4x - 5y = 6$

$(-1, -2)$ $\quad d = \left| \frac{4(-1) - 5(-2) - 12}{\sqrt{4^2 + (-5)^2}} \right|$

$d = \left| \frac{-6}{\sqrt{41}} \right| = \frac{6}{\sqrt{41}} = \frac{6\sqrt{41}}{41}$

21. $y = -3x + 6$ $\quad (0, 6)$

$3x + y = 4$

$3x + y - 4 = 0$

$d = \left| \frac{3(0) + 1(6) - 4}{\sqrt{3^2 + 1^2}} \right| = \frac{2}{\sqrt{10}} = \frac{2\sqrt{10}}{10} = \frac{\sqrt{10}}{5}$

23. $y = -\frac{3}{2}x$ $(0, 0)$

$y = -\frac{3}{2}x - 4$

$\left(0 = -\frac{3}{2}x - y - 4\right)2 \rightarrow 0 = -3x - 2y - 8$

$$d = \left| \frac{-\frac{3}{2}(0) - 1(0) - 4}{\sqrt{\left(-\frac{3}{2}\right)^2 + (-1)^2}} \right| = \left| \frac{-4}{\sqrt{\frac{13}{4}}} \right| = \frac{4}{\frac{\sqrt{13}}{2}}$$

$$= 4 \cdot \frac{2}{\sqrt{13}} = \frac{8}{\sqrt{13}} = \frac{8\sqrt{13}}{13}$$