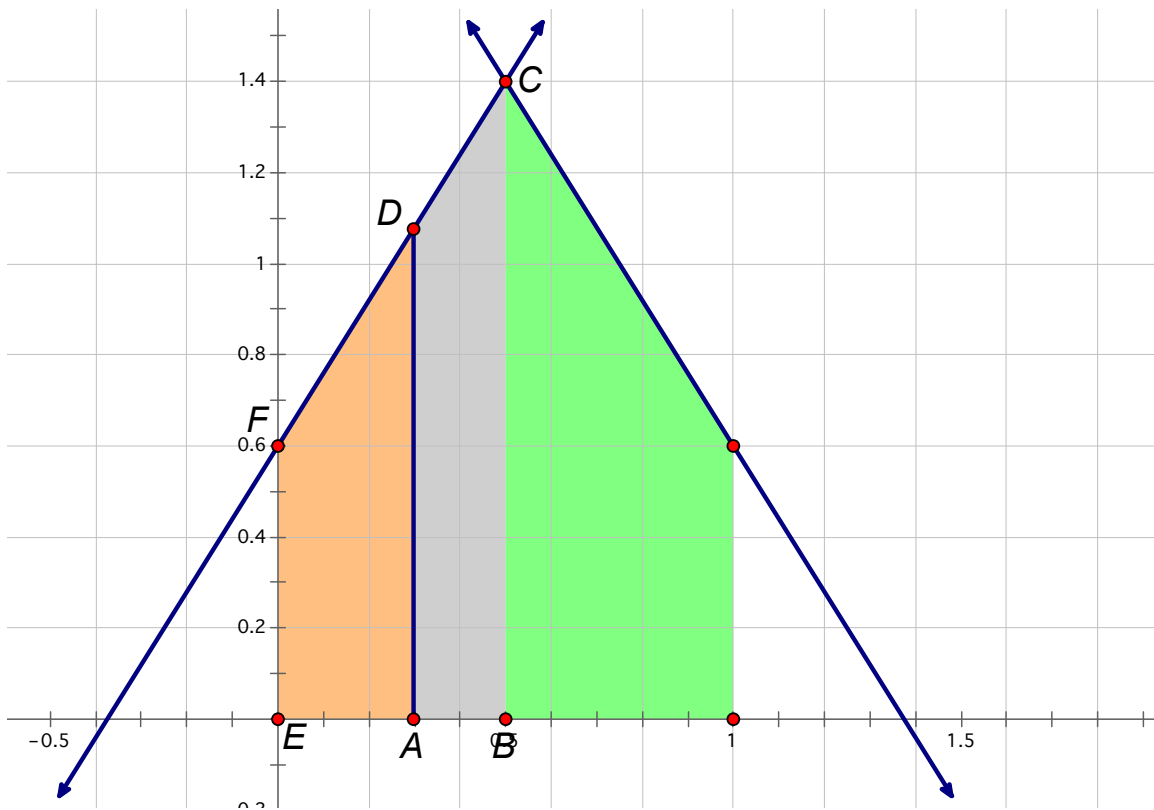


Exercise 2.20... the part C that wasn't...



$$A_{\text{orange}} = a(0.8a + 0.6) \\ = 0.8a^2 + 0.6a$$

$$A_{\text{orange}} = 0.25$$

$$0.8a^2 + 0.6a - 0.25 = 0$$

$$20(0.8a^2 + 0.6a - 0.25) = 0$$

$$16a^2 + 12a - 5 = 0$$

$$\frac{-12 \pm \sqrt{144 + 4 \cdot 16 \cdot 5}}{32} = \frac{-12 + \sqrt{464}}{32} = \frac{-12 + 4\sqrt{29}}{32} \\ = \frac{-3 + \sqrt{29}}{8} \approx 0.298$$