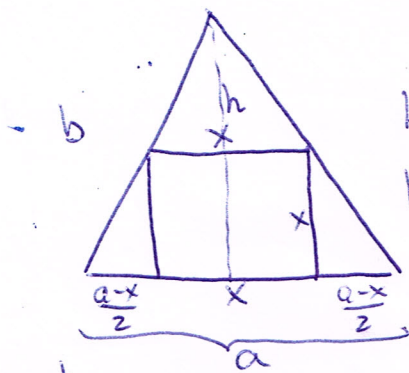


3.38  
4



H -  $\frac{a^2}{4}$

$$H = \sqrt{b^2 - \frac{a^2}{4}}$$

$$h = \sqrt{b^2 - \frac{a^2}{4}} - x$$

$$\frac{x}{a} = \frac{h}{H}$$

$$x = \frac{ah}{H} = \frac{a(\sqrt{b^2 - \frac{a^2}{4}} - x)}{\sqrt{b^2 - \frac{a^2}{4}}}$$

$$x(\sqrt{b^2 - \frac{a^2}{4}} + a) = \sqrt{b^2 - \frac{a^2}{4}}$$

$$x = \frac{\sqrt{b^2 - \frac{a^2}{4}}}{\sqrt{b^2 - \frac{a^2}{4}} + a} = \frac{\frac{\sqrt{4b^2 - a^2}}{2}}{\frac{\sqrt{4b^2 - a^2} + 2a}{2}}$$

$$x = \frac{\sqrt{4b^2 - a^2}}{\sqrt{4b^2 - a^2} + 2a}$$