

$$-3F \cdot \left(\frac{d}{\sqrt{d^2 + (1,5)^2}} \right) + 80 = 0 \quad ; \quad F = 50(\sqrt{d^2 + (1,5)^2} - 1,5)$$

$$80 - \frac{3d}{\sqrt{d^2 + (1,5)^2}} \cdot \left[50(\sqrt{d^2 + (1,5)^2} - 1,5) \right] = 0$$

$$80 - \frac{3d \{ [50(\sqrt{d^2 + (1,5)^2} - 1,5)] \}}{\sqrt{d^2 + (1,5)^2}} = 0$$

$$80 - \frac{150d(\sqrt{d^2 + (1,5)^2} - 1,5)}{\sqrt{d^2 + (1,5)^2}} = 0 \quad / : 150$$

$$\frac{d(\sqrt{d^2 + (1,5)^2} - 1,5)}{\sqrt{d^2 + (1,5)^2}} = 0,5333$$

$$\frac{d\sqrt{d^2 + (1,5)^2} - 1,5d}{\sqrt{d^2 + (1,5)^2}} = 0,5333$$

$$d\sqrt{d^2 + (1,5)^2} - 1,5d = 0,5333\sqrt{d^2 + (1,5)^2}$$

$$(d - 0,5333)\sqrt{d^2 + (1,5)^2} = 1,5d \quad / ^2$$

$$(d - 0,5333)^2(d^2 + 2,25) = 2,25d^2$$

$$(d^2 - 1,0666d + 0,2844)(d^2 + 2,25) = 2,25d^2$$

$$d^4 + 2,25d^2 - 1,0666d^3 - 2,3998d + 0,2844d^2 + 0,6399 - 2,25d^2 = 0$$

$$\boxed{d^4 - 1,0666d^3 + 0,2844d^2 - 2,3998d + 0,6399 = 0} \quad / : d^2$$