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$$F = (458^2 + 216.5^2)^{1/2} = 506.6 \text{ lbf}$$

This is the pin force on the
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Given: F-1 Polyamide, $b = 6$
in, $d = 2$ in with $n = 1750$
rev/min, $H. \text{ nom.} = 2$ hp, $C =$
 $9 (12) = .108$ in, velocity
ratio = 0.5, $K. s.$

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Chapter 3 Solutions, Page 1/100 Chapter 3 3-1 $\Sigma = M_O = 0$
 $18 \cdot 6(100) - 0 \cdot R_B = 0$ Ans B
 $R_B = 33.3 \text{ lbf}$. $\Sigma = F_y = 0$ $R_O + B - 100 = 0$ $R_O = 66.7 \text{ lbf}$.
R R Ans C $B = 33.3 \text{ lbf}$. 3-2
Body AB : $\Sigma = F_x = 0$ $R_A = B$
 $\Sigma = F_y = 0$ $R_A + B = 100$
 $R_A = 50$ $B = 50$ $R = 50$
R = Body OAC : $\Sigma = M_O = 0$ $R_A = 100(30) - 0 = 3000$
 $R_A = 300 \text{ lbf}$.

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