

15.10 Lösungen

1. $F_R = \underline{\underline{150}} \text{ [N]}$
 $\alpha = \underline{\underline{36,87^\circ}}$

2. $F_R = \underline{\underline{334,00}} \text{ [N]}$
 $\beta = \underline{\underline{27,76^\circ}}$

3. $F_R = \underline{\underline{192,73}} \text{ [N]}$
 $\beta = \underline{\underline{21,52^\circ}}$

4. $v_R = \underline{\underline{17,54}} \text{ [m/s]}$
 $\beta = \underline{\underline{19,30^\circ}}$

5. $F_S = \underline{\underline{626,17}} \text{ [N]}$
 $\beta = \underline{\underline{128,15^\circ}}$

6. $F_A = \underline{\underline{614,36}} \text{ [N]}$
 $F_B = \underline{\underline{430,18}} \text{ [N]}$

7. $t_{\text{Windstill}} = \underline{\underline{5'000}} \left[\frac{\text{m} \cdot \text{s}}{\text{m}} = \text{s} \right]$
 $t_{\text{Rückenwind}} = \underline{\underline{4'000}} \left[\frac{\text{m} \cdot \text{s}}{\text{m}} = \text{s} \right]$
 $t_{\text{Querwind}} = \underline{\underline{5'163,98}} \left[\frac{\text{m} \cdot \text{s}}{\text{m}} = \text{s} \right]$
 $\alpha = \underline{\underline{14,48^\circ}}$