

Universidade Federal de Santa Catarina
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Gabarito lista de exercícios 2 - Mecânica

1. (a) $F = 2,4N$
(b) $F = 3,6N$
2. (a) $P_T = 690N$
(b) $P_L = 120N$
(c) $P_J = 1800N$
3. (a) $F_F = 3500N$
(b) $t = 5,9s$
4. $F_a t = 0,25N$
5. (a) $F = 6,9 \times 10^5 N$
(b) $F = 2,4 \times 10^6 N$
6. (a) $T = 4,5 \times 10^4 N$ ou $T = 5 \times 10^4 N$
(b) $T = 3,2 \times 10^4 N$ ou $T = 3 \times 10^4 N$
- 7.
8. $F_a t = 10N$
- 9.
10. (a) Não.
(b) $F = 70N$
(c) $F = 55N$
(d) $F = 86N$
(e) $F = 50N$
11. $d = 40m$
12. $F = 300N$
13. $W = 38J$
- 14.
15. $E_C = 3 \times 10^{14} J$
16. $h = 0,26m$
17. $\Delta x = 0,12m$
18. (a) $v = 5,7m/s$
(b) $v = 7,2m/s$
19. (a) $m = 5000kg$
(b) $p = 5,0 \times 10^4 kg.m/s$
20. $p = 2500kg.m/s$ e $E_C = 6,2 \times 10^5 J$