Power

Answers

Further Maths topic practice

This topic online

Q	Answer	Marks
1	**a)** 18 kW **b)** 33.3 m s^{-1}	3
2	**a)** 37.5 m s^{-1} **b)** 0.636 m s^{-2}	4
3	69.8 kW	4
4	**a)** 27.1 m s^{-1} **b)** 0.953 m s^{-2}	6
5	**a)** 0.19 m s^{-2} **b)** 29.3 m s^{-1}	5
6	**a)** k = 30 shown **b)** 0.5 m s^{-2}	6
7	**a)** 0.438 m s^{-2} **b)** 375 N	7
8	**a)** P = 31 360 (31.4 kW), R = 1274 **b)** 24.6 m s^{-1}	8
9	**a)** 0.410 m s^{-2} **b)** 1120 N	8
10	**a)** R = 626 **b)** 1.23 m s^{-2} **c)** 26.1 m s^{-1}	9
11	**a)** 3.97 kW **b)** 13.5 m s^{-1}	7
12	**a)** k = 80 shown **b)** 0.245 m s^{-2} **c)** 20.2 m s^{-1} **d)** 131 kW	11

Full worked solutions, written out by hand, are on the solutions sheet for this topic.

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