

Uniform Motion

1. 13m
2. 12.3s
3. a) 1.63s b) 0.88 m/s west
- 4 a) 26000m b) 2400m west
5. 3.95 m/s
6. a) 35km
7. a) 67 m/s b) 0
8. a) 440km b) 24m/s
9. 20m/s
10. 3m

Uniform accelerated motion

1. 5s
2. 4.2s
3. 9.4 m/s down
4. a) 27 m/s b) 2.7s
5. 22m
6. 12m/s^2
7. 44m/s up
8. 1.0m/s^2 West
9. 42d
10. a) 5.0s b) 62m

Uniform Accelerated Motion (More!)

1. a) 70.4 m/s
b) 22.0 s
c) 1028 m
d) 29.2 s
e) 142 m/s downward
f) 43.7 s
2. a) 7.00 s
b) 20 m/s downward
c) 1.54s and -2.54s
3. 18.7 s
4. a) 8.70 s
b) 168 m

Motion graphs

1. a) -1.5 km/h b) -3 km/h c) -2 km/h

2. a) E b) A, E c) C d) B, D e) 1.2 m/s

3. a) 11.25 m/s b) 15.8 m/s

4. a) 0.8 m/s b) 1.67 m/s c) between 0 and 25 s d) between 25 to 50s s

5. a) 375 m b) 1.2 m/s^2

6. a) 190 m b) positive direction, constant speed at 4 m/s

c) positive direction from 0 to 50s d) 0.2 m/s^2 e) -0.3 m/s^2

f) -0.08 m/s^2 g) 3.8 m/s

7a) between 10s to 20s b) between 0 and 10s c) between 10 and 20s & between 30 and 40s

d) between 20 and 30s & between 40 and 50s

e) 1000 m

Motion graph part 2

