

**Indiana Course-Aligned Assessment
Physics – Sample Items**

1. A volleyball is hit straight upward with an initial velocity of 5.0 m/s. How long does it take the volleyball to reach its highest point?

A 0.26 s

B 0.51 s

C 1.0 s

D 2.0 s

2. A generator converts _____ energy to _____ energy.

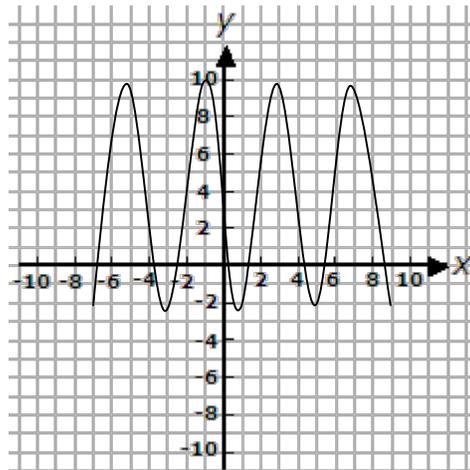
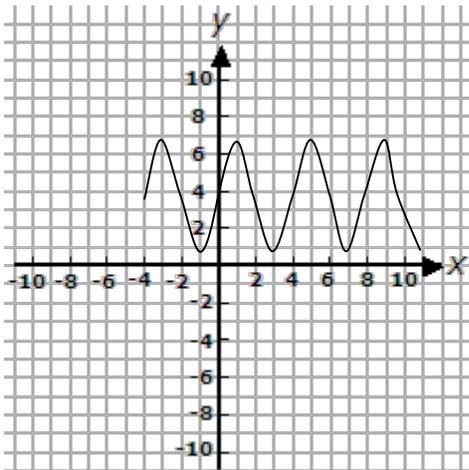
A kinetic, thermal

B thermal, kinetic

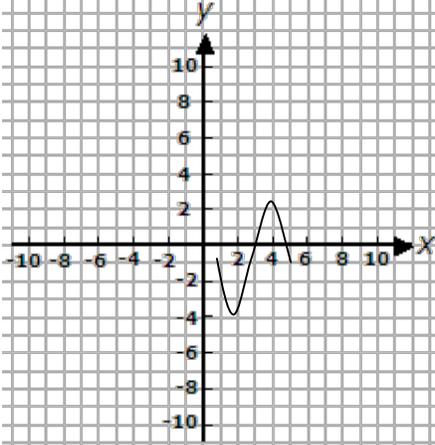
C electrical, mechanical

D mechanical, electrical

3. Draw the wave resulting from the interference of these two waves:



Answer Key

Item	Answer	Alignment
1	B	P.1.1
2	D	P.2.4
3		P.5.4