**Physics 20 - Lesson 26**

**Work, Energy, Power**

/73

b)

a) work = area of a force-distance graph

1)





2)

Work is positive since the object is being raised

(i.e. the potential energy increases)





3)

b) down

a) up





4)



500 N

20o





5)



/6



100 kg



6)





7)



c) Work on scaffold = work done by window washer



a)



b) From the diagram we see that the weight is distributed between the three ropes



**Kinetic / Potential Problems**

1)





2)







2830 m

h

3)



4)





5)





**Power**



1)





2)





3)





4)





5)



