D44								
P11	1 - 6.5 -	Power/	Efficien	icy Note	es			
Power	r:The ability	to do Work	in Watts					
How n	nuch Power i	f 30 J of W	ork is done o	on an object	for 5s?			
P =	$=\frac{W}{t}$	W	I					
P =	$=\frac{W}{t}$ $=\frac{30}{5}$	$=\frac{W}{t}$	$P = \frac{f}{S} = W$					
Q :	= 6 W				m			
Find '	'P" it takes a	Motor to Pı	ısh 15 kg ob	ject from re	est to $15\frac{m}{s}$ o	$ver\ a\ d = 37.5$	m in 5 s?	
		t = 5s	15	W = Fc	d	_ W		
1	v = 0	15	<i>v</i> = 15	W = Fc	d 5(37.5)	$P = \frac{W}{t}$ $P = \frac{1687.5}{5}$ $P = 337.5 W$		
	d = 37	.5 <i>m</i>		W = 16	587.5 <i>J</i>	$P = {5}$		
11	- 12. ± at	П		1 .		e Efficiency of	f tha	
$v_f = v_f$	$= v_i + at$ = at	F = ma $F = 15(3)$	$d = v_i - d$ $d = \frac{1}{2}(3)$ $d = 37.$	$+\frac{-at^2}{2}$	Motor if it	says 500 W or		
a	$= at$ $= \frac{v_f}{t}$ $= \frac{15}{5}$ $= 3\frac{m}{s^2}$ $= 3\frac{m}{s}$	F = 45 N	$d = \frac{1}{2}(3)$ $d = 37.$	5m!	$E_{ff} = \frac{1}{2}$ $E_{ff} = \frac{3}{2}$	P_{out} P_{in} $E_{ff} =$	Power Out	
а	$=\frac{15}{5}$)ynamics –	Work –		$E_{ff}=\frac{3}{5}$	375 / // 500	Power In	
a	$=3{s^2}$	ower – Kin	ematics Lin	R		75% Efficient		
					7)	,,		