

## Lesson 3, extra practice key

- 1) a) continuous  
b) exponential  
c) iii (x in the exponent)  
d) increasing  
e) Absolute maximum (10, 11)  
f) Domain:  $x \leq 10$  #s  
Range:  $0 < y \leq 11$  (ish)
- 2) a) continuous  
b) absolute value  
c) ii (x inside absolute value symbols)  
d) decreasing from 0 to 24, increasing from 24 to 48  
e) absolute minimum (24, 0)  
f) Domain:  $0 \leq x \leq 48$   
Range:  $0 \leq y \leq 16$

- 3) a) discrete  
b) linear  
c) iv  
d) increasing  
e) Absolute minimum (1, 2)  
Absolute maximum (4, 8)  
f) Domain:  $\{1, 2, 3, 4\}$   
Range:  $\{2, 4, 6, 8\}$
- 4) a) continuous  
b) quadratic  
c) i ( $y = x^2$ )  
d) decreasing from  $-\infty$  to 2  
increasing from 2 to  $\infty$   
e) Absolute minimum (2, 1)  
f) Domain: all real #s  
Range:  $y \geq 1$