

## Worksheet 16/17 Answers

1) 18

2) A) 5.429

B) 8.137

3) a.  $1-2\pi$

b. There is a relative max at  $x = \frac{11}{3}$  because  $g'$  changes from pos to neg. (*You can calculate the exact x-value of the max by writing and using the equation of the line.*)

c.  $y - (1 - 2\pi) = 2(x - 3)$

d. There is a point of inflection at  $x=0$  because  $g'$  changes from dec to inc. There is a point of inflection at  $x=3$  because  $g'$  changes from inc to dec.

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1. A)  $-\frac{1}{4}$

B)  $-\frac{1}{2}$

C)  $y - 1 = -2(x - 2)$

D)  $g$  is inc on  $(-5,0)$  because  $g'$  is pos

E) 3

2.  $102^\circ$

3. 12.848

4. 98.602

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1. A) 6

B) 4

2. A) 5

B) 7

3. D

4. C

5. 60

6. 41.106 gallons

7.  $88.204^\circ F$