

PRACTICE: Quiz (AAL/AFL)

Fri 11 JAN 2019

1) Given $f(x) = (x+3)^2$. Write the expression of the following funct.

a) $g(x) = f(x) - 1$

d) $s(x) = \frac{7}{9} f(x-3) + 3$

b) $h(x) = 3f(x) + 2f(x)$

e) $t(x) = \frac{4}{27} f(3x+3)$

c) $r(t) = \frac{1}{3} (2f(t) + 7)$

f) $u(x) = 4g(x) - f(x)$

AFL (Before seeing solutions)

- 1) How well do you think you did?
- 2) If not 100%, why? Did you ask enough questions in class?
- 3) What would you need to perform better?

AfL (After seeing solutions)

1) How well did you actually do?

2) If not 100%, why?

3) What can you do to improve?

Do any of your previous answers change in view of the solutions?

(Now you know what 100% correct means)

Solutions

$$f(x) = (x+3)^2$$

$$f) u(x) = 4g(x) - f(x) = 4(x+3)^2 - 4 - (x+3)^2 = 3(x+3)^2 - 4$$

$$a) g(x) = f(x) - 1 = (x+3)^2 - 1$$

$$b) h(x) = 3f(x) + 2f(x) = 3(x+3)^2 + 2(x+3)^2 = 5(x+3)^2$$

$$c) r(t) = \frac{1}{3}(2f(t) + 7) = \frac{1}{3}(2(t+3)^2 + 7) = \frac{2}{3}(t+3)^2 + \frac{7}{3}$$

$$d) s(z) = \frac{7}{9}f(x-3) + 3 = \frac{7}{9}(x-3+3)^2 + 3 = \frac{7}{9}x^2 + 3$$

$$e) t(x) = \frac{4}{27}f(3x+3) = \frac{4}{27}(3x+3+3)^2 = \frac{4}{27}(3x+6)^2 = \frac{4 \cdot 9}{27}(x+2)^2 = \frac{4}{3}(x+2)^2$$

TAKE HOME LESSON

EMBRACE YOUR MISTAKES.

WHAT MATTERS IS WHAT YOU DO FROM THIS
POINT ON

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