

Monday 2.22

If $f(x) = 6x^2 - 2x + 7$ and $g(x) = x^3 - 5x^2$, what is $f(x) - g(x)$?

- A** $-x^3 + x^2 - 2x + 7$
- B** $x^3 + 11x^2 - 2x + 7$
- C** $-x^3 + 11x^2 - 2x + 7$
- D** $-x^3 + 11x^2 + 2x - 7$

Tuesday 2.23

Which function is the inverse of

$$f(x) = \frac{2}{3}x - 1?$$

- F** $f^{-1}(x) = \frac{3}{2}x + \frac{3}{2}$
- G** $f^{-1}(x) = -\frac{2}{3}x + 1$
- H** $f^{-1}(x) = 2x - 3$
- J** $f^{-1}(x) = 3x - 2$

Wednesday 2.24

Which expression represents

$f(x) \cdot g(x) + f(x)$ if $f(x) = x + 3$ and $g(x) = x - 5$?

- F** $2x^2 + 4x - 6$
- G** $x^2 - 2x - 15$
- H** $x^2 - x - 12$
- J** $3x + 1$

Thursday 2.25

$$(8y^2 - 7y + 6) - 3(2y^2 - y + 6) =$$

- F** $2y^2 - 6y + 12$
- G** $2y^2 - 10y + 12$
- H** $2y^2 - 6y$
- J** $2y^2 - 4y - 12$

Friday 2.26

$$2m - 1 \overline{)4m^3 - 7m - 5}$$

- F** $2m^2 - \frac{5m - 5}{2m - 1}$
- G** $2m^2 + \frac{5m - 5}{2m - 1}$
- H** $2m^2 - m + 3 + \frac{8}{2m - 1}$
- J** $2m^2 + m - 3 - \frac{8}{2m - 1}$