

Algebra 2 – Trig Midterm Review Packet #4

- 1) Express the sum in simplest radical form:

$$\sqrt{-18} + \sqrt{-8}$$

(1) $\sqrt{-26}$

(3) $i\sqrt{26}$

(2) $5i\sqrt{2}$

(4) $10i$

- 2) If f is a linear function, find $f(x)$ given $f(5) = -7$ and $f(2) = -1$

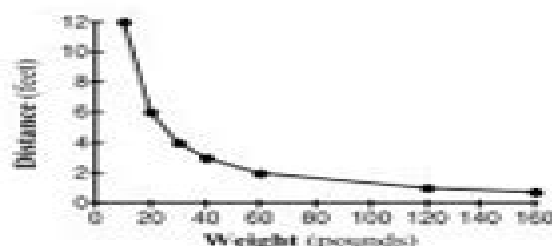
(1) $f(x) = -\frac{1}{2}x + \frac{5}{2}$

(3) $f(x) = -\frac{1}{2}x - 5$

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

(4) $f(x) = -2x + 19$

- 3) The accompanying graph shows the relationship between a person's weight and the distance that the person must sit from the center of a seesaw to make it balanced.



Which equation best represents this graph?

(1) $y = 12x^2$

(3) $y = 2 \log x$

(2) $y = -120x$

(4) $y = \frac{120}{x}$

- 4) What is the domain of $f(x) = \frac{1}{\sqrt{x^2 - 4x - 5}}$?

(1) $\{x \mid x < -5 \text{ or } x > 1\}$

(3) $\{x \mid -1 < x < 5\}$

(2) $\{x \mid x < -1 \text{ or } x > 5\}$

(4) $\{x \mid -5 < x < 1\}$

- 5) Find the value of x : $\log_5 x = -2$

(1) $x = 25$

(3) $x = -32$

(2) $x = \frac{1}{25}$

(4) $x = -10$

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Yan Bai



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