Name _____ Date _____

3.2 **Puzzle Time**

What Is The Difference Between A Pterodactyl And A Parrot?

A	B	C	D	E	F
G	H	I	J	K	L
M	N				

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

−48i   THE
3i√10   KNOW
25i   YOU'D
16i√5   DIFFERENCE
x = −3; y = 2   IF
i√2; −i√2   ON
11 − i   EVER

Find the square root of the number.

A. $\sqrt{-625}$　　　　　　**B.** $\sqrt{-90}$

C. $-4\sqrt{-144}$　　　　**D.** $8\sqrt{-20}$

Find the values of _x_ and _y_ that satisfy the equation.

E. $-3x + 4i = 2yi + 9$　　**F.** $20 - 5xi = \frac{1}{3}y + 35i$

Add, subtract, or multiply. Write the answer in standard form.

G. $(8 - i) + (3 + i) - i$　　**H.** $(12 + 7i) - (8 - 4i)$

I. $4i(-2 + 7i)$　　　　　**J.** $(4 - 6i)(4 + 6i)$

Find the zeros of the function.

K. $f(x) = -2x^2 - 30$　　**L.** $f(x) = 4x^2 + 8$

M. $f(x) = \frac{2}{3}x^2 + 18$　　**N.** $f(x) = 3x^2 + 75$

i√15; −i√15   SIT
−28 − 8i   A
3i√3; −3i√3   YOUR
5i; −5i   SHOULDER
4 + 11i   LET
52   PTERODACTYL
x = −7; y = 60   YOU