Name _____ Date _____

Polynomial Identities as Complex Numbers - Matching Worksheet

Write the letter of the answer that matches the problem.

Match the polynomials to their complex form.

_____ 1. $x^2 + 76$	a. $(x+i\sqrt{55})\ (x-i\sqrt{55})$
_____ 2. $x^2 + 3$	b. $(x+i\sqrt{65})\ (x-i\sqrt{65})$
_____ 3. $x^2 + 144$	c. $(x+i\sqrt{70})\ (x-i\sqrt{70})$
_____ 4. $x^2 + 289$	d. $(x+12i)\ (x-12i)$
_____ 5. $x^2 + 7$	e. $(x+6i)\ (x-6i)$
_____ 6. $x^2 + 11$	f. $(x+i\sqrt{11})\ (x-i\sqrt{11})$
_____ 7. $x^2 + 36$	g. $(x+i\sqrt{3})\ (x-i\sqrt{3})$
_____ 8. $x^2 + 55$	h. $(x+i\sqrt{7})\ (x-i\sqrt{7})$
_____ 9. $x^2 + 65$	i. $(x+17i)\ (x-17i)$
_____ 10. $x^2 + 70$	j. $(x+i\sqrt{76})\ (x-i\sqrt{76})$