Simplify using real numbers and i.

$$\sqrt{-9}$$

A. ±3

B. $-i\sqrt{3}$

C. $-3i$

D. $3i$

Simplify using real numbers and i.

$$\sqrt{-49}$$

A. $-7i$

B. $7i$

C. ± 7

D. $\sqrt{7}$

Simplify using real numbers and i.

$$2\sqrt{-72}$$

A. $2\sqrt{2}$

B. $-12\sqrt{2}$

C. $12i\sqrt{2}$

D. $6i\sqrt{8}$

Simplify and write in the standard form of a complex number

$$\frac{-6-22i}{2}$$

A. $3-i\sqrt{22}$

B. $-3-i\sqrt{11}$

C. $-14i$

D. $-3-11i$

Simplify and write in the standard form of a complex number

$12+\sqrt{-289}$

A. $12+289i$

B. $12+17i$

C. $12-17i$

D. $12-289i$

Simplify and write in the standard form of a complex number

$$\sqrt{-361} - \sqrt{81}$$

A. $9+19i$

B. $10i$

C. $-10i$

D. $-9+19i$

Simplify and write in the standard form of a complex number

$$i^{16}$$

A. 1

B. $-i$

C. -1

D. i

Simplify and write in the standard form of a complex number

i^{21}

A. 1

B. $-i$

C. -1

D. i

Simplify and write in the standard form of a complex number

$$i^{42}$$

A. 1

B. $-i$

C. -1

D. i

Simplify and write in the standard form of a complex number

$$\frac{2}{5-3i}$$

A. $\dfrac{5}{8} - \dfrac{3}{8}i$

B. $\dfrac{5}{8} + \dfrac{3}{8}i$

C. $\dfrac{5}{17} + \dfrac{3}{17}i$

D. $\dfrac{5}{17} - \dfrac{3}{17}i$