

1. Express in terms of i and simplify.

$$\sqrt{-28} =$$

2. Simplify and write the result in the form $a + bi$.

a) $(8 - 5i) - (6 + 2i) =$

b) $-6i(3 - 5i) =$

c) $(7 - 2i)(-3 + 6i) =$

d) $\sqrt{-16} \cdot \sqrt{-8} =$

e) $\frac{1-i}{1+i} =$

f) $\frac{3+4i}{5i} =$

g) $i^{46} =$

h) $i^{15} =$

Q: A man while looking at a photograph said, "Brothers and sisters have I none. That man's father is my father's son." Who was the person in the photograph?