What Happens If the Jolly Green Giant Steps on Your House?

For exercises in the first column, express each square as a trinomial. For the remaining exercises, factor each trinomial as the square of a binomial, if possible. (If this is not possible, the correct answer is "not possible.") Find your answer below. Write the letter of the exercise in the box containing the number of its answer.

Express as a trinomial:

(E) $(u+3)^2$

(O) $(u-8)^2$

(S) $(2u+5)^2$

(L) $(1-4u)^2$

(T) $(u+2v)^2$

(U) $(7u-3v)^2$

(O) $(uv+6)^2$

Answers:

(13) $4u^2+20u+25$

(3) $4u^2+16u+25$

(9) u^2+6u+9

(10) $u^2+4uv+4v^2$

(14) $49u^2-31uv+9v^2$

(6) $1-8u+16u^2$

(2) $u^2-16u+64$

(18) $u^2v^2+12uv+36$

(5) $u^2+7uv+4v^2$

(12) $49u^2-42uv+9v^2$

Factor:

(E) t^2+4t+4

(U) $t^2-12t+36$

(L) $t^2-18t+81$

(Y) $25+10t+t^2$

(W) $4t^2+20t+25$

(S) $9t^2-12t+4$

(I) $t^2+10t+20$

Answers:

(5) not possible

(7) $(t-9)^2$

(19) $(t-12)^2$

(4) $(2t+5)^2$

(15) $(t+2)^2$

(21) $(3t-2)^2$

(16) $(2t-9)^2$

(3) $(t-6)^2$

(1) $(5+t)^2$

(8) $(3t-5)^2$

Factor:

(D) $49a^2+14a+1$

(O) $16a^2-24a+9$

(G) $a^2-8a+64$

(M) $a^2+2ab+b^2$

(H) $a^2+10ab+25b^2$

(R) $4a^2-12ab+9b^2$

(M) $100a^2-20ab+b^2$

Answers:

(8) not possible

(11) $(10a-3b)^2$

(16) $(7a+1)^2$

(11) $(10a-b)^2$

(20) $(a+b)^2$

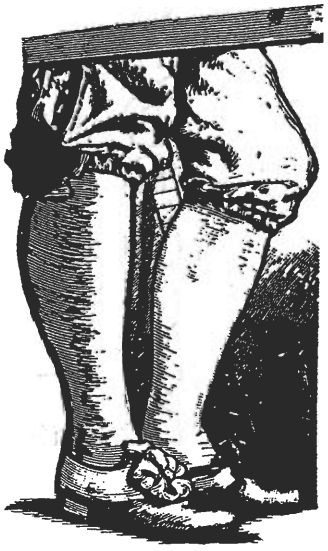
(17) $(2a-3b)^2$

(19) $(4a-3)^2$

(20) $(a+3b)^2$

(14) $(a+5b)^2$

(19) $(4a-8)^2$



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