1. 3.2.2 (c) For all positive integers n ≤ 4, (n+1)^3 ≥ 3^n.

<https://www.chegg.com/homework-help/questions-and-answers/exercise-252-proof-exhaustion-prove-statement-using-proof-exhaustion-every-integer-n-osnn3-q79106954>

1. 3.2.3 (c) For every positive integer x, x^3 < 2^x.

x = 3, x^3 = 27 and 2^3 = 8

1. 3.2.5 (h) For every pair of real numbers, x and y, there exists a real number z such that x - z = z - y.

<https://www.chegg.com/homework-help/questions-and-answers/lacuidc-220-viry-toeffect-offtoft-prove-existential-statement-given--positive-integers-x-y-q44133357>

1. 3.2.6 There are positive integers m and n such that没完

<https://www.chegg.com/homework-help/questions-and-answers/exercise-226-disproving-existential-statements-statement-state-needs-proven-order-show-exi-q66468369>

1. 3.3.3(a)(b)(c)(d)(e)

<https://www.chegg.com/homework-help/questions-and-answers/exercise-233-find-mistake-proof-odd-even-numbers-theorem-n-m-odd-integers-n2-m2-even-proof-q66257387>

<https://www.chegg.com/homework-help/questions-and-answers/exercise-233-find-mistake-proof-odd-even-numbers-theorem-n-m-odd-integers-n2-m2-even-proof-q66505868>

<https://www.chegg.com/homework-help/questions-and-answers/exercise-233-find-mistake-proof-odd-even-numbers-theorem-n-m-odd-integers-n2-m2-even-proof-q66468398>

<https://www.chegg.com/homework-help/questions-and-answers/exercise-233-find-mistake-proof-odd-even-numbers-theorem-n-m-odd-integers-n2-m2-even-proof-q68512654>

1. 无

<https://www.chegg.com/homework-help/questions-and-answers/prove-following-statements-using-direct-proof-product-two-rational-numbers-rational-number-q44709626>

<https://www.chegg.com/homework-help/questions-and-answers/prove-following-statements-using-direct-proof-e-e-2-x-y-rational-numbers-y-0-y-1-1-also-ra-q66949044>

1. <https://www.chegg.com/homework-help/questions-and-answers/exercise-251-proof-contrapositive-statements-odd-even-integers-prove-statement-contraposit-q85562305>

<https://www.chegg.com/homework-help/questions-and-answers/exercise-251-proof-contrapositive-statements-odd-even-integers-prove-statement-contraposit-q85304577>

1. <https://www.chegg.com/homework-help/questions-and-answers/proof-contrapositive-question-using-contrapositive-show-x-y-x-3-xy-2-x-2y-y-3-thanks-lot-q39173790>

<https://www.chegg.com/homework-help/questions-and-answers/f-every-non-zero-real-number-x-x-irrational-1-also-irrational-g-every-pair-real-numbers-x--q53872245>

10.

<https://www.chegg.com/homework-help/questions-and-answers/person-buys-least-400-cups-coffee-year-least-one-day-person-bought-least-two-cups-coffee-q31069640>

<https://www.chegg.com/homework-help/questions-and-answers/prove-person-buys-least-400-cups-coffee-year-least-one-day-person-bought-least-two-cups-co-q34392516>

<https://www.chegg.com/homework-help/questions-and-answers/give-proof-statement-group-9-kids-won-total-100-trophies-least-one-9-kids-won-least-12-tro-q31451336>

<https://www.chegg.com/homework-help/questions-and-answers/exercise-246-proofs-contradiction-give-proof-statement-group-9-kids-won-total-100-trophies-q44984427>

11.

<https://www.chegg.com/homework-help/questions-and-answers/exercise-346-proofs-contradiction-give-proof-statement-e-largest-odd-integer-g-even-intege-q57392978>

12.

<https://www.chegg.com/homework-help/questions-and-answers/exercise-471-proofs-cases-statements-numbers-prove-statement-every-real-number-x-x2-0-b-ev-q69578262>

<https://www.chegg.com/homework-help/questions-and-answers/m-hard-time-understanding-cases-problem-would--please-write-case-explain-would-proved-than-q55737675>

13.

<https://www.chegg.com/homework-help/questions-and-answers/proofs-cases-let-x-y-two-integers-xy-integer-multiple-5-neither-x-y-integer-multiple-5-q18962866>