David

Factoring

Problems:

1) Factor the expression $x.. \div xm,,$

2) Factor the expression $k.. \div z...$

3) Factor the expression $tx\dagger - t$

4) Factor the expression $x,, - m,,$

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Answers:

1) Factor the expression x..- xm„

1) Pull out the common factor x
x..- xm„Û=Û(x„-m„)
=Û(x+m)(x- m)

2) Factor the expression k..+z...

2) Use the formula a..+b..Û=Û(a+b)(a„-ab+b„) and get
k..+z..Û=Û(k+z)(k„- kz+z„)

3) Factor the expression tx†-t

3) Pull out the common factor t
tx†-tÛ=Û(x†-1)
=Û(x„+1)(x„-1)
=Û(x„+1)(x+1)(x-1)

4) Factor the expression x„-m„

4) Use the formula a„-b„Û=Û(a+b)(a- b)
x„-m„Û=Û(x+m)(x- m)