

Lösungen:

		Punkte
1	<p>Bitte berechnen Sie:</p> <p>a)</p> $\frac{3b - 2}{-3t - 2} - \frac{-g + z}{-c + 7}$ <p style="text-align: center;">L :</p> $\frac{3b - 2}{-3t - 2} - \frac{-g + z}{-c + 7} = \frac{-3bc + 21b + 2c - 14 - 3gt + 3tz - 2g + 2z}{3ct - 21t + 2c - 14}$ <p>b)</p> $\frac{-8u + 3h}{-2v - p} + \frac{t - 4}{3n + 8}$ <p style="text-align: center;">L :</p> $\frac{-8u + 3h}{-2v - p} + \frac{t - 4}{3n + 8} = \frac{-24nu - 64u + 9hn + 24h - 2tv + 8v - pt + 4p}{-6nv - 16v - 3np - 8p}$	4
2	<p>Bitte berechnen Sie</p> <p>a) $(-m + 6,6)^2$ L: $m^2 - 13,2m + 43,56$ [1. BF]</p> <p>b) $(6,3m - 2,7y)(6,3m + 2,7y)$ L: $39,69m^2 - 7,29y^2$ [3. BF]</p> <p>c) $(7,9x - 3,8)^2$ L: $62,41x^2 - 60,04x + 14,44$ [2. BF]</p> <p>d) $(4,2x + 6,6d)^2$ L: $17,64x^2 + 55,44dx + 43,56d^2$ [1. BF]</p>	4
3	<p>Was war die binomische Formel?</p> <p>a) $25u^2 + 40u + 16$ L: $(5u + 4)^2$ [1. BF]</p> <p>b) $16t^2 - 9$ L: $(4t + 3)(4t - 3)$ [3. BF]</p> <p>c) $25u^2 + 60u + 36$ L: $(5u + 6)^2$ [1. BF]</p> <p>d) $9w^2 - 30w + 25$ L: $(3w - 5)^2$ [2. BF]</p> <p>e) $v^2 - 1$ L: $(v + 1)(v - 1)$ [3. BF]</p>	5
4	<p>Bitte bringen Sie's in die Form $(\square + \square)(\square + \square)$</p> <p>a) $6be - 5b + 30e - 25$ L: $(-b - 5)(-6e + 5)$</p> <p>b) $-28c^2 + 24c - 35bc + 30b$ L: $(-4c - 5b)(7c - 6)$</p>	4
5	<p>Bitte kürzen Sie soweit wie möglich</p> <p>a)</p> $\frac{24kq - 9k}{-21ik - 3ko}$ <p style="text-align: center;">L :</p> $\frac{24kq - 9k}{-21ik - 3ko} = \frac{8q - 3}{-7i - o} \quad [3k]$ <p>b)</p> $\frac{10em + 8am}{16jm - 14cm}$ <p style="text-align: center;">L :</p> $\frac{10em + 8am}{16jm - 14cm} = \frac{5e + 4a}{8j - 7c} \quad [2m]$	4