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| **1.a** | Kết quả nào sau đây là ĐÚNG : |  |
| 2.A | \[\lim \frac{{n - 5{n^5} + 1}}{{2{n^5} + {n^2}}} = \frac{5}{2}\] |  |
| 2.B | \[\lim \frac{{{{\left( {2 - n} \right)}^3}{{\left( {n + 2} \right)}^4}}}{{1 - 4.{n^7}}} = \frac{1}{2}\] |  |
| 2.C | \[\lim \frac{{{{\left( {n + 1} \right)}^2}{{\left( {n - 2} \right)}^3}}}{{{{\left( {2n + 1} \right)}^4}\left( {n - 3} \right)}} = \frac{1}{{16}}\] |  |
| 2.D | \[\lim \frac{{{{\left( {2n - 1} \right)}^3}{{\left( {n + 2} \right)}^4}}}{{3{n^7} + 1}} = \frac{1}{3}\] |  |
| 3.Đáp án | C |  |
| 4.Đáp án chi tiết | \[\lim \frac{{n - 5{n^5} + 1}}{{2{n^5} + {n^2}}} = \lim \frac{{\left( {\frac{1}{{{n^4}}} - 5 + \frac{1}{{{n^5}}}} \right)}}{{2 + \frac{1}{{{n^3}}}}} = \frac{{ - 5}}{2}\] ;  \[\lim \frac{{{{\left( {2 - n} \right)}^3}{{\left( {n + 2} \right)}^4}}}{{1 - 4.{n^7}}} = \lim \frac{{{{\left( {\frac{2}{n} - 1} \right)}^3}{{\left( {1 + \frac{2}{n}} \right)}^4}}}{{\frac{1}{{{n^7}}} - 4}} = \frac{{ - 1.1}}{{ - 4}} = \frac{1}{4}\] ;  \[\lim \frac{{{{\left( {n + 1} \right)}^2}{{\left( {n - 2} \right)}^3}}}{{{{\left( {2n + 1} \right)}^4}\left( {n - 3} \right)}} = \lim \frac{{{{\left( {1 + \frac{1}{n}} \right)}^2}{{\left( {1 - \frac{2}{n}} \right)}^3}}}{{{{\left( {2 + \frac{1}{n}} \right)}^4}\left( {1 - \frac{3}{n}} \right)}} = \frac{1}{{16}}\] ;  \[\lim \frac{{{{\left( {2n - 1} \right)}^3}{{\left( {n + 2} \right)}^4}}}{{3{n^7} + 1}} = \lim \frac{{{{\left( {2 - \frac{1}{n}} \right)}^3}{{\left( {1 + \frac{2}{n}} \right)}^4}}}{{3 + \frac{1}{{{n^7}}}}} = \frac{8}{3}\] ; |  |
| 5.Level |  |  |
| 6.Ghi chú |  |  |
| **1.b** | Giới hạn nào sau có kết quả ĐÚNG: |  |
| 2.A | \[\lim \frac{{{{9.2}^{\frac{n}{2}}} - {2^n} + 1}}{{{{2.5}^n} + {2^n} + 2}} = \frac{1}{2}\] |  |
| 2.B | \[\lim \frac{{5{n^2} - 2n + 1}}{{2 - {n^2}}} = - 5\] |  |
| 2.C | \[\lim \left( { - {n^4} - {n^2} + 2} \right) = + \infty \] |  |
| 2.D | \[\lim \left( { - {4^n} - {5^n} + {6^n}} \right) = 1\] |  |
| 3.Đáp án | B |  |
| 4.Đáp án chi tiết | \[\lim \frac{{{{9.2}^{\frac{n}{2}}} - {2^n} + 1}}{{{{2.5}^n} + {2^n} + 2}} = \lim \frac{{\frac{{{{9.2}^{\frac{n}{2}}}}}{{{5^n}}} - {{\left( {\frac{2}{5}} \right)}^n} + \frac{1}{{{5^n}}}}}{{2 + {{\left( {\frac{2}{5}} \right)}^n} + \frac{2}{{{5^n}}}}} = \lim \frac{{9.{{\left( {\frac{{\sqrt 2 }}{5}} \right)}^n} - {{\left( {\frac{2}{5}} \right)}^n} + \frac{1}{{{5^n}}}}}{{2 + {{\left( {\frac{2}{5}} \right)}^n} + \frac{2}{{{5^n}}}}} = \frac{{0 - 0 + 0}}{{2 + 0 + 0}} = 0\] ;  \[\lim \frac{{5{n^2} - 2n + 1}}{{2 - {n^2}}} = \lim \frac{{5 - \frac{2}{n} + \frac{1}{{{n^2}}}}}{{\frac{2}{{{n^2}}} - 1}} = - 5\] ;  \[\lim \left( { - {n^4} - {n^2} + 2} \right) = \lim \left( { - {n^4}} \right)\left( {1 + 1 - \frac{2}{{{n^4}}}} \right) = - \infty \] ;  \[\lim \left( { - {4^n} - {5^n} + {6^n}} \right) = \lim {6^n}.\left( { - {{\left( {\frac{4}{6}} \right)}^n} - {{\left( {\frac{5}{6}} \right)}^n} + 1} \right) = + \infty \] ; |  |
| 5.Level |  |  |
| 6.Ghi chú |  |  |
| **1.c** | Kết quả nào sau đây là ĐÚNG: |  |
| 2.A | \[\lim \frac{{2.{n^5} - 7{n^2} - 3}}{{n - 3.{n^5}}} = - 2\] |  |
| 2.B | \[\lim \frac{{{{\left( {n - 3} \right)}^4}{{\left( {2 - n} \right)}^5}}}{{{n^9} + 1}} = - 1\] |  |
| 2.C | \[\lim \frac{{2{n^3} - 7{n^5} - 3}}{{{n^8} - 3{n^5}}} = \frac{7}{3}\] |  |
| 2.D | \[\lim \frac{{\left( {{n^2} + 1} \right){{\left( {n - 5} \right)}^2}}}{{n - 3.{n^4}}} = \frac{1}{3}\] |  |
| 3.Đáp án | B |  |
| 4.Đáp án chi tiết | \[\lim \frac{{2.{n^5} - 7{n^2} - 3}}{{n - 3.{n^5}}} = \lim \frac{{2 - \frac{7}{{{n^3}}} - \frac{3}{{{n^5}}}}}{{\frac{1}{{{n^4}}} - 3}} = \frac{{ - 2}}{3}\] ;  \[\lim \frac{{{{\left( {n - 3} \right)}^4}{{\left( {2 - n} \right)}^5}}}{{{n^9} + 1}} = \lim \frac{{{{\left( {1 - \frac{3}{n}} \right)}^4}{{\left( {\frac{2}{n} - 1} \right)}^5}}}{{1 + \frac{1}{{{n^9}}}}} = - 1\] ;  \[\lim \frac{{2{n^3} - 7{n^5} - 3}}{{{n^8} - 3{n^5}}} = \frac{{\frac{2}{{{n^5}}} - \frac{7}{{{n^3}}} - \frac{3}{{{n^8}}}}}{{1 - \frac{3}{{{n^3}}}}} = 0\] ;  \[\lim \frac{{\left( {{n^2} + 1} \right){{\left( {n - 5} \right)}^2}}}{{n - 3.{n^4}}} = \frac{{\left( {\frac{1}{{{n^2}}} + 1} \right){{\left( {1 - \frac{5}{n}} \right)}^2}}}{{\frac{1}{{{n^3}}} - 3}} = - \frac{1}{3}\] ; |  |
| 5.Level |  |  |
| 6.Ghi chú |  |  |
| **1.d** | Tìm khẳng định ĐÚNG: \[\lim \frac{{\sqrt {2{n^2} + n - 2} }}{{3 - 2n}} = - \frac{1}{{\sqrt 2 }}\,\,\,\left( X \right)\] và \[\lim \sqrt {\frac{{{n^6} + 3{n^3} - 3}}{{2{n^6} + {n^5} + 2}}} = \frac{1}{{\sqrt 2 }}\,\,\,\left( Y \right)\] |  |
| 2.A | X sai, Y đúng |  |
| 2.B | X sai, Y sai |  |
| 2.C | X đúng, Y đúng |  |
| 2.D | X đúng, Y sai |  |
| 3.Đáp án | C |  |
| 4.Đáp án chi tiết | \[\lim \sqrt {\frac{{{n^6} + 3{n^3} - 3}}{{2{n^6} + {n^5} + 2}}} = \lim \sqrt {\frac{{1 + \frac{3}{{{n^3}}} - \frac{3}{{{n^6}}}}}{{2 + \frac{1}{n} + \frac{2}{{{n^6}}}}}} = \frac{1}{{\sqrt 2 }}\] ;  \[\lim \frac{{\sqrt {2{n^2} + n - 2} }}{{3 - 2n}} = \lim \frac{{\sqrt {2 + \frac{1}{n} - \frac{2}{{{n^2}}}} }}{{\frac{3}{n} - 2}} = - \frac{1}{{\sqrt 2 }}\] ; |  |
| 5.Level |  |  |
| 6.Ghi chú |  |  |
| **1.e** |  |  |
| 2.A |  |  |
| 2.B |  |  |
| 2.C |  |  |
| 2.D |  |  |
| 3.Đáp án |  |  |
| 4.Đáp án chi tiết |  |  |
| 5.Level |  |  |
| 6.Ghi chú |  |  |
| **1.f** |  |  |
| 2.A |  |  |
| 2.B |  |  |
| 2.C |  |  |
| 2.D |  |  |
| 3.Đáp án |  |  |
| 4.Đáp án chi tiết |  |  |
| 5.Level |  |  |
| 6.Ghi chú |  |  |
| **1.g** |  |  |
| 2.A |  |  |
| 2.B |  |  |
| 2.C |  |  |
| 2.D |  |  |
| 3.Đáp án |  |  |
| 4.Đáp án chi tiết |  |  |
| 5.Level |  |  |
| 6.Ghi chú |  |  |
| **1.h** |  |  |
| 2.A |  |  |
| 2.B |  |  |
| 2.C |  |  |
| 2.D |  |  |
| 3.Đáp án |  |  |
| 4.Đáp án chi tiết |  |  |
| 5.Level |  |  |
| 6.Ghi chú |  |  |
| **1.i** |  |  |
| 2.A |  |  |
| 2.B |  |  |
| 2.C |  |  |
| 2.D |  |  |
| 3.Đáp án |  |  |
| 4.Đáp án chi tiết |  |  |
| 5.Level |  |  |
| 6.Ghi chú |  |  |
| **1.j** |  |  |
| 2.A |  |  |
| 2.B |  |  |
| 2.C |  |  |
| 2.D |  |  |
| 3.Đáp án |  |  |
| 4.Đáp án chi tiết |  |  |
| 5.Level |  |  |
| 6.Ghi chú |  |  |